

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPLE
BENCH, NEW DELHI

ORIGINAL APPLICATION NO.238/2024

NEWS ITEM TITLED "UP GIVES PERMISSION TO FELL 112000 TREES
FOR ROAD ALONG UPPER GANGA CANAL" APPEARING HINDUSTAN
TIMES

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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
PRINCIPLE BENCH, NEW DELHI

ORIGINAL APPLICATION NO. 238 OF 2024

NEWS ITEM TITLED "UP GIVES PERMISSION TO FELL
112000 TREES FOR ROAD ALONG UPPER GANGA CANAL"
APPEARING IN HINDUSTAN TIMES

COMPLIANCE REPORT ON BEHALF OF SURVEY OF INDIA

1. That the present compliance report/reply is being file by Duregsh Nandan Pathak S/o Sh. Jagdish Narayan Pathak aged 50 years working as Director, in office of Uttar Pradesh Geospatial Directorate, Survey of India, Lucknow.
2. That I have gone through the records maintained in the office of the present case and competent to file the present reply on behalf of Survey of India.
3. That survey of India is National Mapping agency comes under the Ministry of science and technology and primarily does Establishment and maintenance of horizontal and vertical geodetic reference frame, Topographical mapping. All types of mapping of administrative boundaries of India, digital elevation model, large scale survey, toponomy, ortho rectified imagery etc.
4. That vide order dated 08.07.24 this Hon'ble tribunal directed Survey of India to file satellite image of stretch under consideration showing extent of trees which have been cut on both sides of the canal. The copy of the order dt.08.07.24 is annexed as **Annexure-A**


(डी०एन०पाठक/D.N. PATHAK)
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उ.प्र. भू-स्था. निदेशालय/U.P.G.D.
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Survey of India, Lucknow

5. That vide order dated 25.07.24 this Hon'ble tribunal again directed Survey of India to file satellite image of stretch under consideration showing extent of trees which have been cut on both sides of the canal. The copy of the order dt.25.07.24 is annexed as **Annexure-B**
6. That the survey of India vide email dated 07.08.24 submitted the satellite image of the year 2018 available with this office of area under consideration and in the said mail also mentioned that for the said purpose satellite imagery of different timeline is available with NRSC, Hyderabad.
7. That in compliances of the Hon'ble Tribunals order this office contacted NRSC, Hyderabad and demanded latest satellite imagery of the year 2024 for the area under consideration. NRSC, Hyderabad provided the login credential of Bhoonidhi portal from where latest satellite imagery can be downloaded, this office after browsing through Bhoonidhi portal found that latest satellite imagery of year 2023 was only available on NRSC's portal, The satellite imagery of 2023 vintage was downloaded and compared with the satellite imagery of year 2018 already available with this office . The report was filed as additional compliance report on dt.02.10.2024.
8. That in additional compliance report dt.02.10.2024 it was also submitted that on visual comparison of satellite imagery of the year 2018 & satellite imagery of the year 2023 , the extent of cutting of trees was not identifiable as both the imagery seems to be of the period prior to cutting of trees on both sides of the canal . The Surveyor General of India who was present on last date of hearing i.e.04.10.24 submitted to this Hon'ble Tribunal that Survey of India can take


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up aerial survey using UAV/Drone to generate Ortho rectified Images of the area to capture the present ground situation and to identify the extent of trees cut on both sides of canal by visually comparing the latest ortho rectified images with the downloaded satellite imagery of vintage 2023 from NRSC's Bhoonidhi portal.

9. That vide order dated 04.10.2024 Hon'ble tribunal directed Survey of India to conduct aerial survey using UAV/Drone to generate ortho rectified images of the area to capture the present ground situation and to identify the extent of trees cut on both sides of the canal. The copy of the order dt.04.10.2024 is annexed as **Annexure-C**
10. That in compliance of the order dt.04.10.2024 this office carried out aerial survey using Drones of the area under consideration in the month October from 07.10.2024 to 12.10.2024. The Drone Survey covered linear stretch of around 110 km along both sides of canal and ortho rectified image of the entire stretch has been generated.
11. The ortho rectified image has been compared with the satellite imagery of the year 2023 already available with this office. On visual comparison of the satellite imagery of the 2023 and ortho rectified image generate by Drone survey in the month of October from 07.10.2024 to 12.10.2024, Total eighteen stretches/area have been identified along both sides of canal wherein felling of Trees found more evident. The extent of these stretches/area have been shown below. The table shows latitude and longitude of the stretches/area along with Area & Perimeter of the extent in which trees have been cut. The


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complete report showing comparison of imagery has been annexed as

Annexure-D

Sl. No.	NAME	FROM	TO	AREA (Sq Km)	PERIMETER (Km)
1	AREA 1	28.810303,77.51592	28.813506,77.516122	0.01	0.75
2	AREA 2	28.818407,77.516003	28.905011,77.531432	0.35	19.65
3	AREA 3	28.930111,77.536579	28.963166,77.549197	0.15	7.86
4	AREA 4	28.982314,77.556885	28.985212,77.558719	0.02	0.83
5	AREA 5	29.063058,77.591386	29.106615,77.610612	0.11	10.43
6	AREA 6	29.10825,77.6112000	29.218324,77.674784	0.4	27.44
7	AREA 7	29.221112,77.674513	29.227063,77.676416	0.01	1.49
8	AREA 8	29.227391,77.676444	29.246444,77.691425	0.05	5.32
9	AREA 9	29.251242,77.695390	29.269555,77.711886	0.07	5.24
10	AREA 10	29.27029,77.7120470	29.288516,77.728869	0.07	5.3
11	AREA 11	29.293371,77.732728	29.295409,77.734902	0.01	0.71
12	AREA 12	29.309921,77.747255	29.340163,77.774930	0.16	8.7
13	AREA 13	29.352508,77.785452	29.361617,77.793950	0.03	2.69
14	AREA 14	29.50435,77.8761380	29.514172,77.877281	0.02	2.24
15	AREA 15	29.526217,77.878107	29.529538,77.878561	0.01	0.82


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16	AREA 16	29.535488,77.877452	29.564318,77.882149	0.06	6.57
17	AREA 17	29.599785,77.879648	29.61794,77.8767700	0.03	4.1
18	AREA 18	29.635536,77.873533	29.642484,77.872824	0.02	1.63

12. That the survey of India has been earnestly complying with all the directions of this Tribunal with all its seriousness. The Survey of India shall continue to comply with any further directions of this Hon'ble Tribunal.

For Survey of India


 (डी०एन०पाठक/ J.N. PATHAK)
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Annexure - A

Item No. 16

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**Original Application No. 238/2024
(IA No. 289/2024, IA No. 286/2024, IA No. 285/2024)

News item titled "UP gives permission to fell 112000 trees for road along Upper Ganga Canal" appearing in Hindustan Times dated 01.02.2024

Date of hearing: 08.07.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**Applicant: Mr. Akash Vashishtha, Adv. for Applicant in I.A No. 285-286/2024
Mr. Suhel Shah, Adv. for Applicant in I.A No. 289/2024Respondent: Mr. K.M. Nataraj, ASG (Through VC) with Ms. Garima Prasad, Sr. Adv.
(AAG) Dr. Vijendra Mahndiyani, Ms. Apurva Singh, Mr. Abhinav Rathi &
Ms. Divyakshi, Advs. for R - 6
Mr. Bhanwar Pal Singh Jadon & Mr. Harsh Vardhan Singh Rajawat,
Advs. for R - 1 to 4
Mr. Rajan Kumar Chourasia, Adv. for MoEF & CC
Ms. Anjali Rajput, Adv. for R - 7 to 10
Mr. Gigi. C. George, Adv. for Ministry of Roadways & Transport (Through
VC)**ORDER**

1. In this original application, registered *suo motu*, the Tribunal is examining the issue of felling of more than 1 lakh trees and shrubs in the protected forest area of three forest divisions – Ghaziabad, Meerut and Muzaffarnagar for construction of two lanes of 111 km Kavar Marg from Muradnagar to Purkaji near Uttarakhand border.

2. The Tribunal on 31.05.2024 had considered the report filed by the PWD, State of Uttarakhand and had expressed that from the report it was not clear if any stretch of road is to be constructed in Uttarakhand for connecting the road to be constructed in the Uttar Pradesh with Haridwar.


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3. The reply on behalf of the Principal Secretary, Irrigation Department, State of Uttarakhand (page 851) has been filed wherein it is stated that:

- “4. It is submitted that there is no ongoing project or any new proposed project for the construction of a Kawar Yatra Marg along ganga canal within the boundaries of the State of Uttarakhand
5. That is also apprised to the Hon'ble Court that from the separation of state of Uttarakhand from the state of Uttar Pradesh the dispute regarding the assets and Liabilities. However, there is ongoing a pending settlement of land ownership upon the borders including Haridwar through which the river Ganga flows.
6. It is also submitted by the answering respondent that the upper Ganga Canal track is within the control and ownership of the Irrigation department, Uttar Pradesh and not with the answering respondent.
7. It is also submitted herein that no construction work pertaining to the track in question or any felling of trees were done nor by any permissions were sought from the answering department.”

4. Another report dated 07.07.2024 has been filed by the Principal Chief Conservator of Forest (HOFF), Uttarakhand, Dehradun.

5. Learned Counsel for the State of Uttarakhand referring to these reports have submitted that there is no proposal for construction of any connecting road to the road Kawar Marg constructed by the State of UP with Haridwar.

6. We make it clear that this query was put to the Counsel for the State of Uttarakhand/Officials of State of Uttarakhand to ascertain if the road passing through two States has been broken and two separate roads with separate projects in the two neighbouring States is being proposed/



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constructed to bypass the norms which may be applicable to the road in two States crossing the boundaries of one State.

7. Having regard to the plea which has been taken by the State of Uttarakhand at this stage, we need not go into that issue.

8. The additional affidavit of Special Secretary, Public Works Department, State of Uttarakhand dated 21.06.2024 has been filed enclosing the material on the basis of which the stretch of road under consideration is specified as other district road. A lined diagram of the road in question has been filed on page 667 which indicates that a wide road already exists on the left side of the canal marked in green and now on the right side of the canal this proposed Kawar Marg is being constructed. The lined diagram indicates that the left side of the road is already connected to the right side through various bridges. We find that the Kawar Marg which is shown in red comes to an abrupt end without joining it with some other road. Though it is stated that a bridge will be constructed to connect it with the left side existing green road but the map does not indicate it, nor any such material has been placed on record. We also find that the left side green existing road is a wide road which on crossing the boundary of the State of UP becomes quite narrow. Hence, if the right-side Kawar Marg is joined through the bridge to the left side existing wide road at the end of the boundary of the State of UP then it would result into two wide roads leading to/joining one narrow road. No explanation for such a scheme has been placed on record.

9. The interveners have made an allegation that though the permission was granted for construction of the road on the right side of the canal upto 20/15 meters but the trees have been cut upto the width of 40 meter. In this regard, the news item on page 872 has been referred

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to which indicates such a complaint was made by the local MLA to the District Magistrate and a Committee was constituted headed by the Additional Commissioner to ascertain the position on the spot and physical measurements of the width upto which the trees were cut was taken. The report of the said Committee is also required to be placed on record.

10. Learned ASG and AAG representing the State of UP have submitted that the original width of the proposed road was 20 metres which at some places has been reduced to 15 metres to minimise the felling of trees, but there is an allegation by the proposed interveners that the trees have been cut much beyond the said permission/decision.

11. To ascertain the correct position, we direct the Survey of India to file the satellite image of the stretch under consideration showing the extent of trees which have been cut on both sides of canal.

12. The proposed interveners have also raised the issue that on the right side of the canal a 5 metre *kacha* road was already existing and including that 5 metre wide *kacha* road, the road upto the width of 15/20 metres could have been constructed to minimise the felling of the trees but a separate 20 metres/15 metres width road is being constructed. This also needs to be explained.

13. The interveners have also pointed out that the illegal felling of tree in the garb of widening of the road is taking place and has referred to the FIR filed on page 875. Hence, we direct that the State authorities will ensure that no illegal felling of tree takes place beyond the permission/decision of 20/15 metres width of the proposed road. The proposed interveners are permitted to file additional documents in support of their plea. They are also directed to supply a copy of the intervention/ direction

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application being IA Nos. 285/2024, 286/2024 and 289/2024 to Counsel for the respondents within three days.

14. It will be open to Counsel for the respondents to file response to these IAs within a period of ten days thereafter.

15. Let the further report keeping in view the observation made above be filed by the State of UP within a period of two weeks from today by e-mail at judicial-ngt@gov.in preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF.

16. List on 25.07.2024.

17. A copy of this order be forwarded to Survey of India by e-mail for compliance.

Prakash Shrivastava, CP

Arun Kumar Tyagi, JM

Dr. A. Senthil Vel, EM

July 08, 2024
Original Application No. 238/2024
(IA No. 289/2024, IA No. 286/2024, IA No. 285/2024)
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Item No. 13

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**Original Application No. 238/2024
(IA No. 289/2024, IA No. 286/2024, IA No. 285/2024)

News item titled "UP gives permission to fell 112000 trees for road along Upper Ganga Canal" appearing in Hindustan Times dated 01.02.2024

Date of hearing: 25.07.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**Respondent: Mr. K.M. Nataraj, ASG (Through VC) with Ms. Garima Prasad, AAG, Dr. Vijendra Mahndiyani & Ms. Apurva Singh, Advs. for PWD, State of UP
Mr. Bhanwar Pal Singh Jadon, Adv. for R - 1, 3 to 5
Mr. Rajan Kumar Chourasia, Adv. for MoEF & CC
Ms. Anjali Rajput, Adv. for R - 7, 9 & 10
Mr. Gigi. C. George, Adv. for Ministry of Roadways & Transport (Through VC)
Mr. Suhel Shah, Mr. Shajahan & Mr. Imran, Advs. for Applicant in I.A No. 289/2024**ORDER**

1. The Tribunal by order dated 08.07.2024 had directed the Survey of India to file the satellite image of the stretch under consideration showing the extent of trees which have been cut on both sides of the canal. A copy of the order was also forwarded to the Survey of India through e-mail for compliance. Let fresh communication be sent to the Survey of India alongwith a copy of the order dated 08.07.2024 for submitting the satellite image as directed.

2. List on 09.08.2024.


Prakash Shrivastava, CP

Arun Kumar Tyagi, JM

Dr. A. Senthil Vel, EM

July 25, 2024
DV

1



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Item No. 10

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 238/2024
(IA No 365/2024, IA No 289/2024, IA No
286/2024, IA No 285/2024)

News item titled "UP gives permission to fell 112000 trees for road along Upper Ganga Canal" appearing in Hindustan Times dated 01.02.2024

Date of hearing: 04.10.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE ARUN KUMAR TYAGI, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Respondents: Mr. K.M. Nataraj, ASG (Through VC) with Ms. Garima Prasad, Sr. Adv. (AAG) Dr. Vijendra Mahndiyani, Ms. Apurva Singh & Ms. Divyakshi Singh, Advs. for the State of UP
Mr. Bhanwar Pal Singh Jadon & Ms. Gargi Chaturvedi, Advs. for R - 1, 3 to 5 Ms. Anjali Rajput, Adv. for the State of Uttarakhand (Through VC)
Mr. Gigi. C. George, Adv. for Ministry of Roadways & Transport with Mr. Hitesh Mahhwana, Surveyor General, Forest Survey of India
Mr. Akash Vashishtha, Adv. for Applicant in I.A No. 285-286/2024
Mr. Suhail Shah, Advs. for Applicant in I.A No. 289/2024 (Through VC)

ORDER

1. In this proceeding, the Tribunal is examining the issue of alleged illegal felling of trees in the course of construction of 111 km Kavar Marg from Muradnagar to Purkaji near Uttarakhand border.

2. The Tribunal, to ascertain the correct position by order dated 08.07.2024 directed the Survey of India to file the satellite image of the stretches under consideration showing the extent of trees that have been cut on both sides of the canal. The matter was thereafter taken up on 25.07.2024 and no report from the Survey of India was received. Therefore, the Tribunal directed sending the fresh communication to Survey of India along with a copy of the order dated 08.07.2024 for submitting the satellite image as directed earlier. Matter was again taken

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up on 09.08.2024 and since no report from the Survey of India was received therefore on 09.08.2024 the Tribunal had impleaded Surveyor General of Survey of India as Respondent No. 13 and had directed issuance of notice to the said Respondent.

3. The Tribunal by order dated 09.08.2024 had also directed the Surveyor General of Survey of India to remain virtually present before the Tribunal on the next date of hearing i.e. on 20.09.2024. When the matter was taken up on 20.09.2024 neither the Surveyor General of Survey of India was virtually present nor report in terms of the earlier order was filed. Hence, the Tribunal had imposed the cost of 1 Rupee upon the Surveyor General of Survey of India for such conduct.

4. The Surveyor General of Survey of India is present today. The compliance report dated 25.09.2024 and one additional compliance report have also been by the Surveyor General of Survey of India. The Surveyor General of Survey of India has submitted that the order dated 08.07.2024 passed by the Tribunal was received on 16.07.2024 and thereafter communication through email was sent to the judicial-ngt@gov.in. The said communication has been placed on record on page 1033 which is in the nature of a personal letter, hence, it has not come on record. A further submission has been made by the Surveyor General of Survey of India that the order dated 09.08.2024 was not received by him therefore he had failed to remain present virtually on 20.09.2024. It has also been pointed out that the Surveyor General of Survey of India has filed R.A. No. 18/2024 seeking review of the order dated 20.09.2024. The above plea explaining the conduct has been taken in the said R.A. therefore it will be considered in that R.A.


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5. In the additional compliance report, the Surveyor General of Survey of India has taken a stand that satellite data of 2018 of the particular region was filed through email on 08.07.2024, 09.08.2024 and 19.09.2024 which has been filed along with compliance report dated 25.09.2024. It has further been stated that to show the extent of trees that have been cut on both sides of the canal the office of the Surveyor General of Survey of India has contacted the National Remote Sensing Centre (NRSC), Hyderabad to obtain latest satellite images of the year 2024. The plea of the Surveyor General of Survey of India in the additional report is as under:-

"6. That Survey of India has the Satellite data of 2018 of the particular region, which has already been filed by email dt 07.08.24, email dt 09.08.24 and Email dt 19.09.24 and compliance report dt. 25.09.24.

7. Now in compliance to the Hon'ble Tribunals order to show the extent of trees which have been cut on both sides of the canal, this office contacted National Remote Sensing Centre (NRSC), Hyderabad for obtaining latest satellite imagery of the year 2024 of the area under consideration for comparing it with Satellite Imagery of Year 2018 available with this office.

8. National Remote Sensing Centre, Hyderabad provided the login credential of Bhoonidhi portal from where latest satellite imagery can be downloaded, this office checked the availability of the satellite Imagery of Year 2024 after login to Bhoonidhi Portal. The satellite imagery of year 2024 was not available through Bhoonidhi Portal Annexed as Annexure-C.

9. The latest Satellite imagery of year 2023 is available on NRSC's portal, this office download the latest satellite imagery of year 2023 from Bhoonidhi portal of National Remote Sensing Centre, Hyderabad and compared the satellite imagery of year 2018 and satellite imagery of year 2023 annexed as Annexure-D.

10. On visual comparison of the satellite imagery of year 2018 and satellite imagery of year 2023, the extent of cutting of trees was not identifiable as both the imagery seems to be of the period prior to cutting/felling of tree in these stretches. The latest satellite imagery after cutting of trees is not available on Bhoonidhi portal of NRSC, Hyderabad."

6. The stand is that though the satellite imagery of 2018 and 2023 has been obtained from the NRSC the same are not available for the year

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 Survey of India, Lucknow

2024. The Surveyor General of Survey of India has stated that Survey of India can conduct aerial survey using UAV/Drone to generate orthorectified images of the area to capture the present ground situation and to identify the extent of trees cut on both sides of the canal. He has submitted that this exercise can be completed within a period of 30 days and the report can be submitted before the Tribunal.

7. The compliance report and additional compliance report submitted by the Surveyor General of Survey of India are accepted and taken on record. The Surveyor General of Survey of India is directed to carry out the aerial survey as indicated in paragraph 11 of the additional compliance report and file further compliance report immediately on completion of 30 days period.

8. The Surveyor General of Survey of India in the report will give its findings relating to the extent of tree cover which has been lost within the last one year in the area concerned and if possible the number of trees which have been cut within this period.

9. Learned ASG has also submitted that a drone survey was done by the State Authorities. He is permitted to place on record the pen drive containing the images of the drone survey. He has stated that the State will abide by the statement made on 20.09.2024 that no felling of the trees will take place till the next date of hearing and has made a request to give a short date.

10. List on 06.11.2024.

Prakash Shrivastava, CP


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Arun Kumar Tyagi, JM

Dr. A. Senthil Vel, EM

October 04, 2024
O.A. No. 238/2024
A..



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Annexure-D

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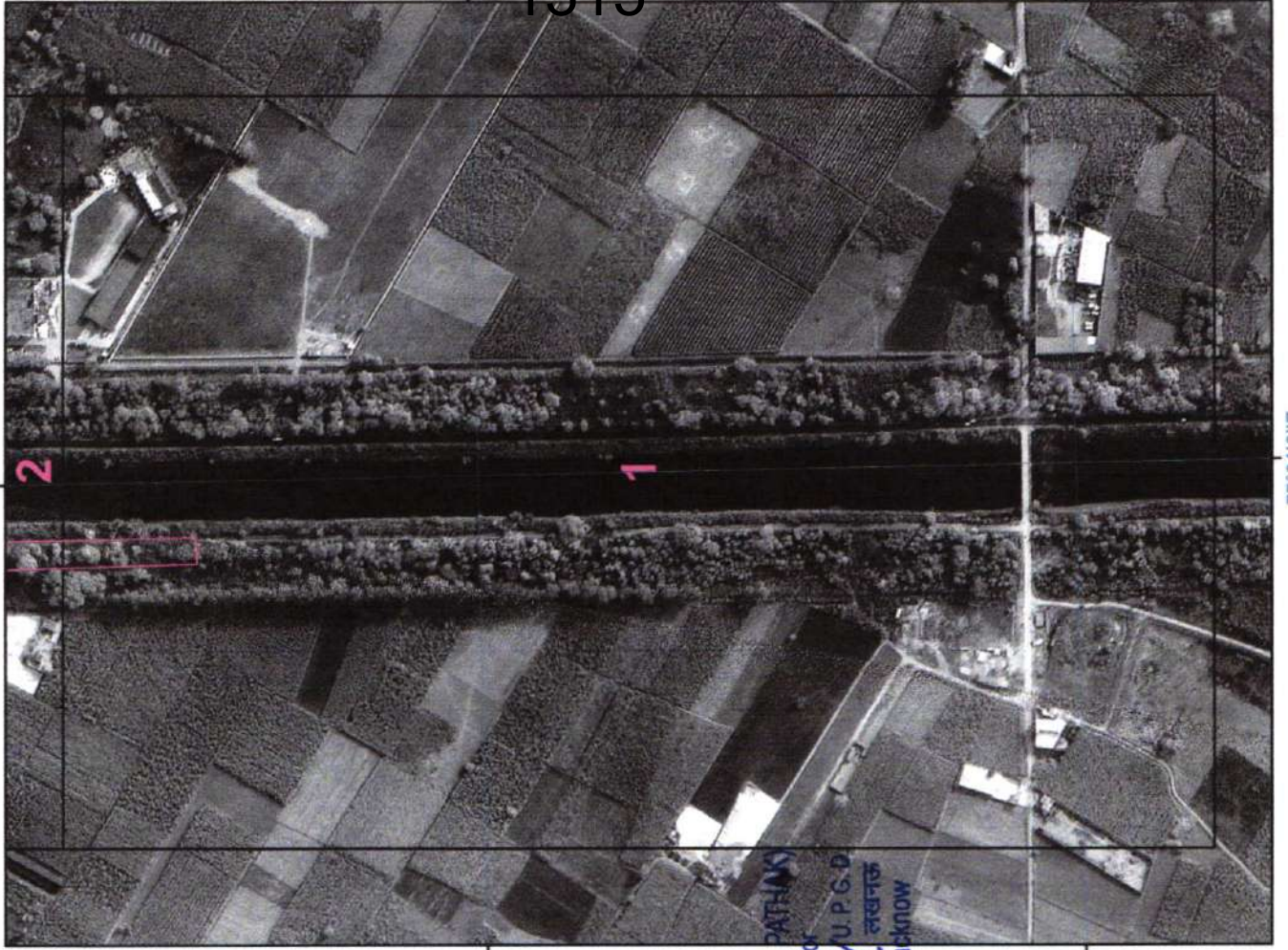
Satellite Images from NRSC of 2023

AREA_01_01_01

77°31'0"E



77°31'0"E



28°48'30"N

28°48'30"N

28°48'15"N

28°48'15"N

77°31'0"E

77°31'0"E

1315

28°48'30"N

28°48'15"N

18

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Satellite Images from NRSC of 2023

AREA_01_02

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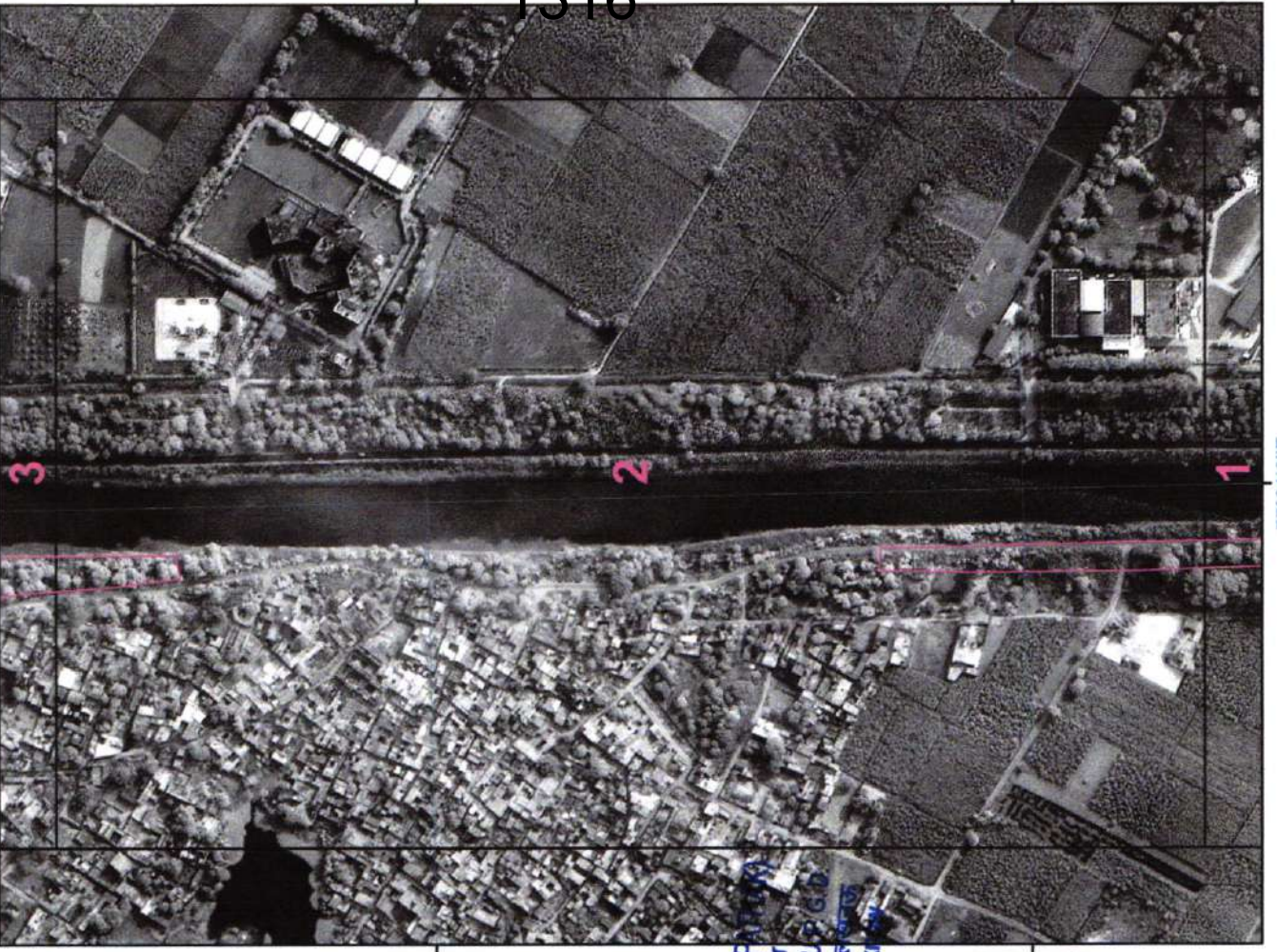


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28°48'45"N

77°31'0"E

77°31'0"E



28°49'0"N

1316

28°48'45"N

19

77°31'0"E

SURVEY OF INDIA

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Satellite Images from NRSC of 2023

AREA_02_01

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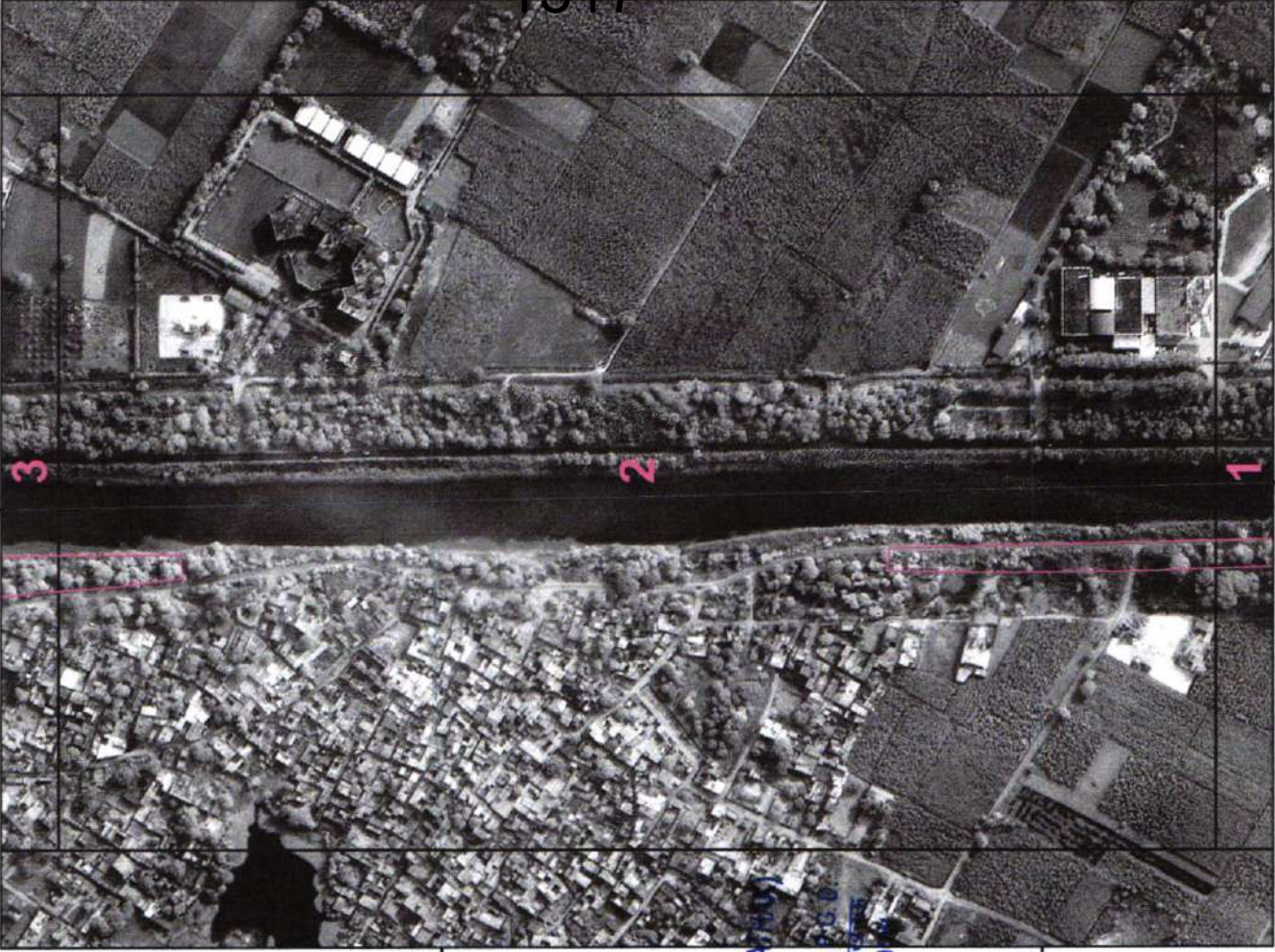


28°49'0"N

28°48'45"N

77°31'0"E

77°31'0"E



28°49'0"N

1317

28°48'45"N

20

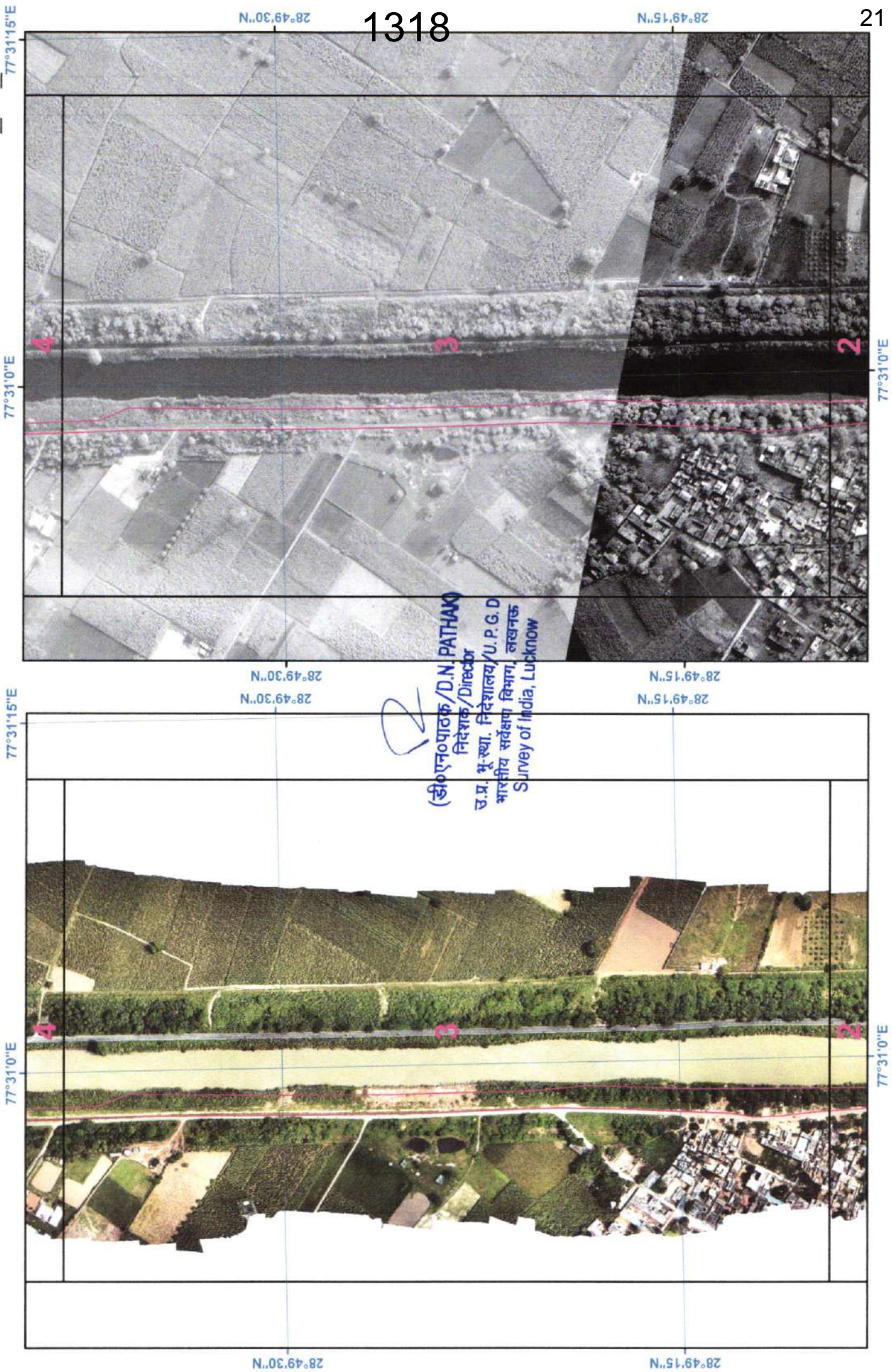
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Satellite Images from NRSC of 2023

AREA_02_02



1318

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Drone Images Oct 2024

Satellite Images from NRSC of 2023

AREA_02_03



1319

22

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023

AREA_02_04



1320

23

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023

AREA_02_05

77°31'0"E

77°31'15"E

28°51'0"N

28°51'0"N

28°50'45"N

28°50'45"N

77°31'0"E

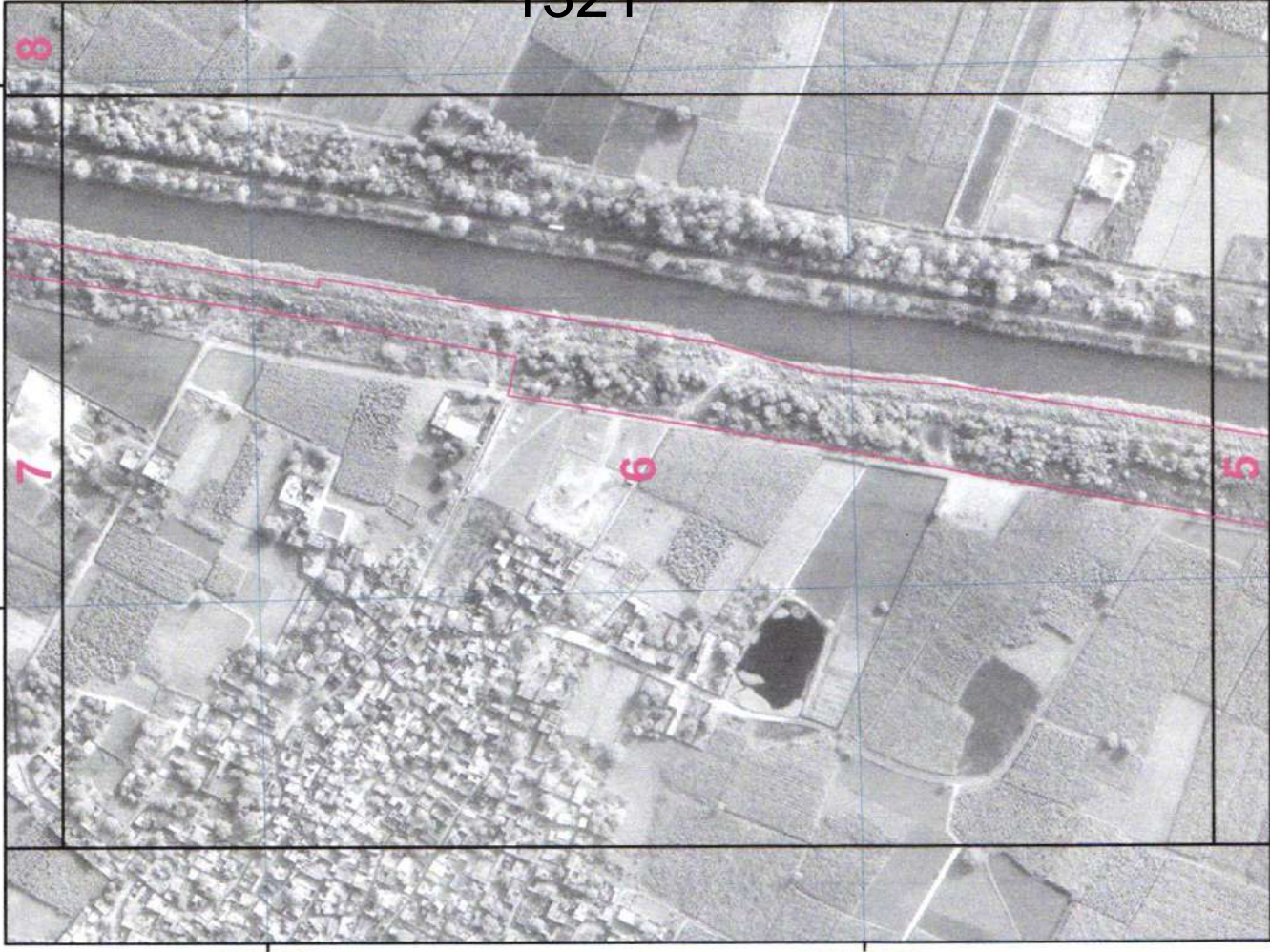
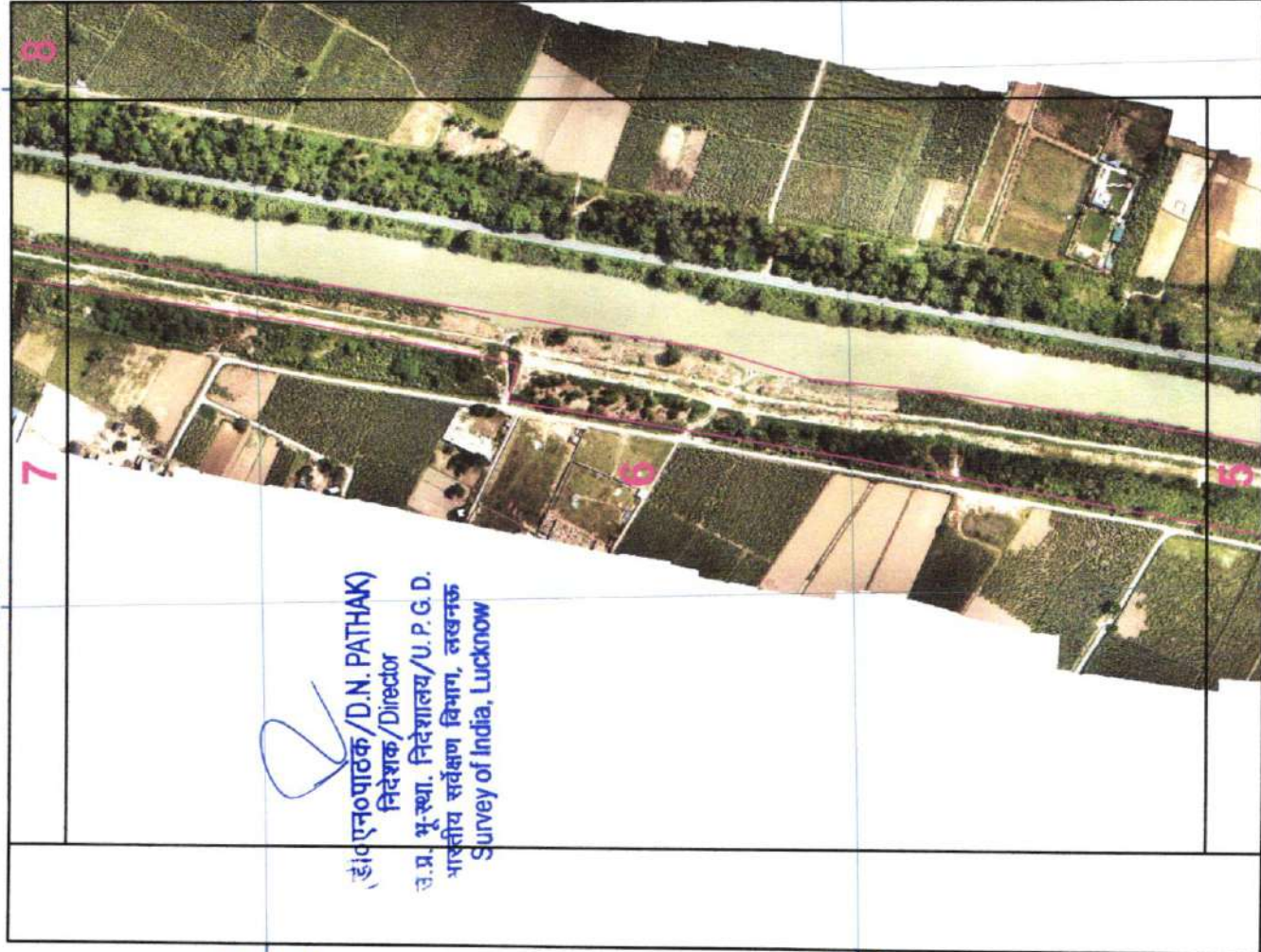
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28°51'0"N

1321

28°50'45"N

24

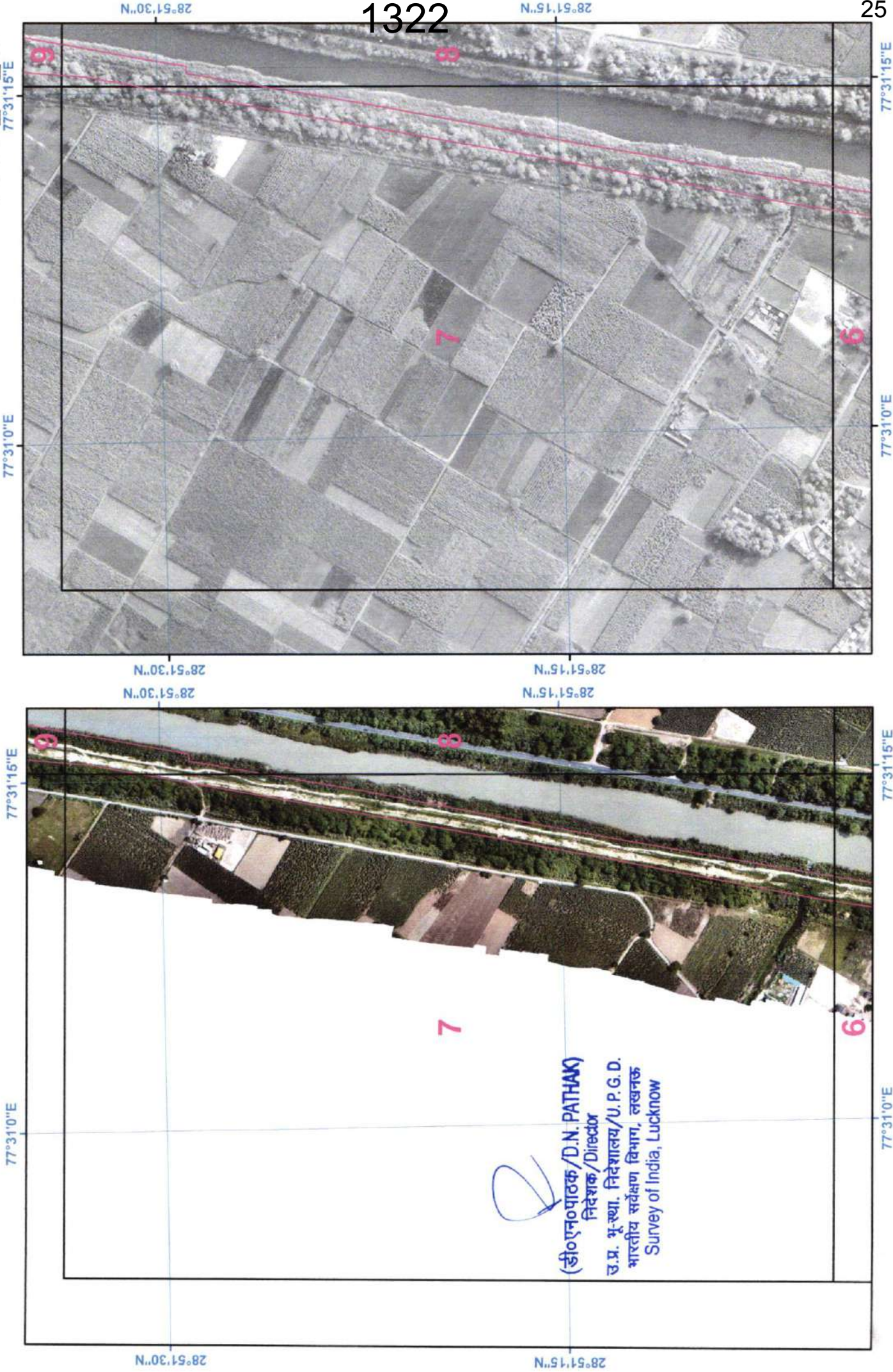


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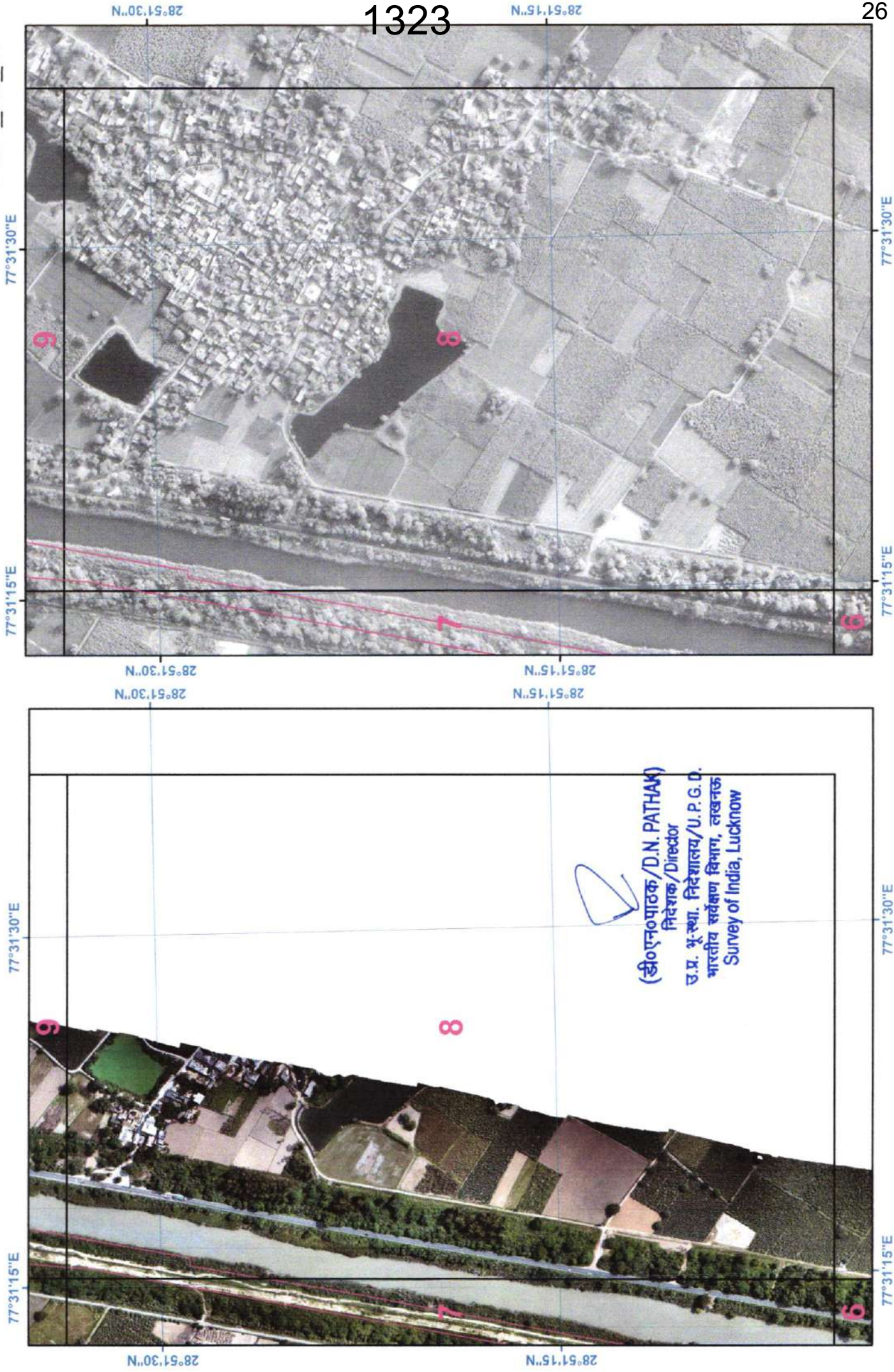
Satellite Images from NRSC of 2023 AREA 02 06



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Satellite Images from NRSC of 2023 AREA_02_07



28°51'30"N

1323

28°51'15"N

26

77°31'15"E

77°31'30"E

28°51'30"N

28°51'15"N

77°31'15"E

77°31'30"E

77°31'15"E

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Satellite Images from NRSC of 2023 AREA_02_08



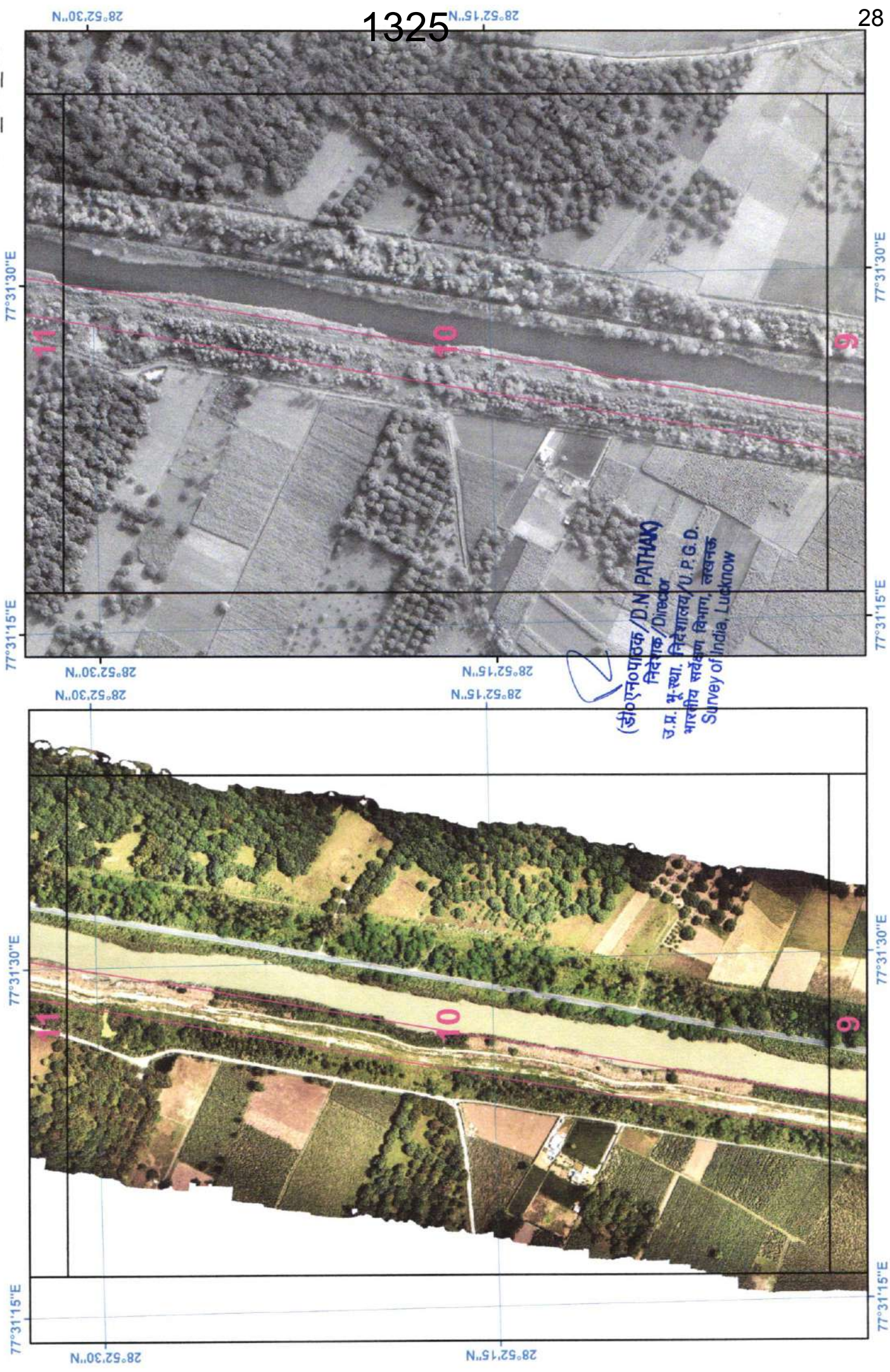
1324

27

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Satellite Images from NRSC of 2023 AREA_02_09



28°52'30\"N

1325

28°52'15\"N

28

77°31'15\"E

28°52'30\"N

28°52'15\"N

77°31'15\"E

77°31'30\"E

77°31'30\"E

77°31'15\"E

28°52'30\"N

28°52'15\"N

77°31'15\"E

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AREA_02_11

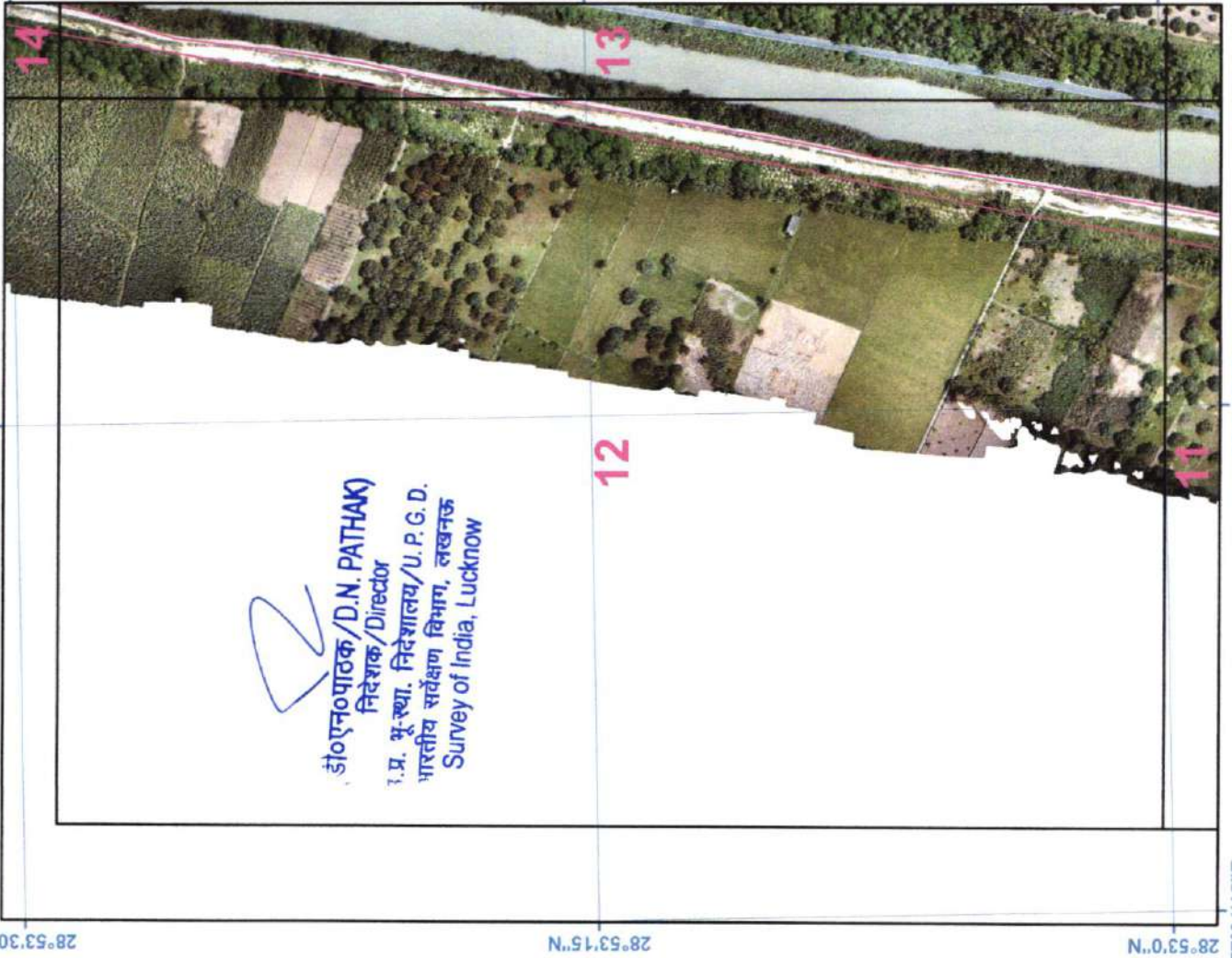
28°53'30"N

77°31'30"E

28°53'30"N

77°31'30"E

28°53'30"N



28°53'15"N

77°31'30"E

28°53'15"N

77°31'30"E

28°53'00"N



28°53'00"N

77°31'15"E

28°53'00"N

28°53'00"N

77°31'30"E

28°53'00"N

77°31'30"E

28°53'00"N

1327

77°31'15"E

77°31'30"E

77°31'15"E

77°31'30"E

77°31'15"E

28°53'00"N

28°53'00"N

28°53'00"N

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Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_02_12



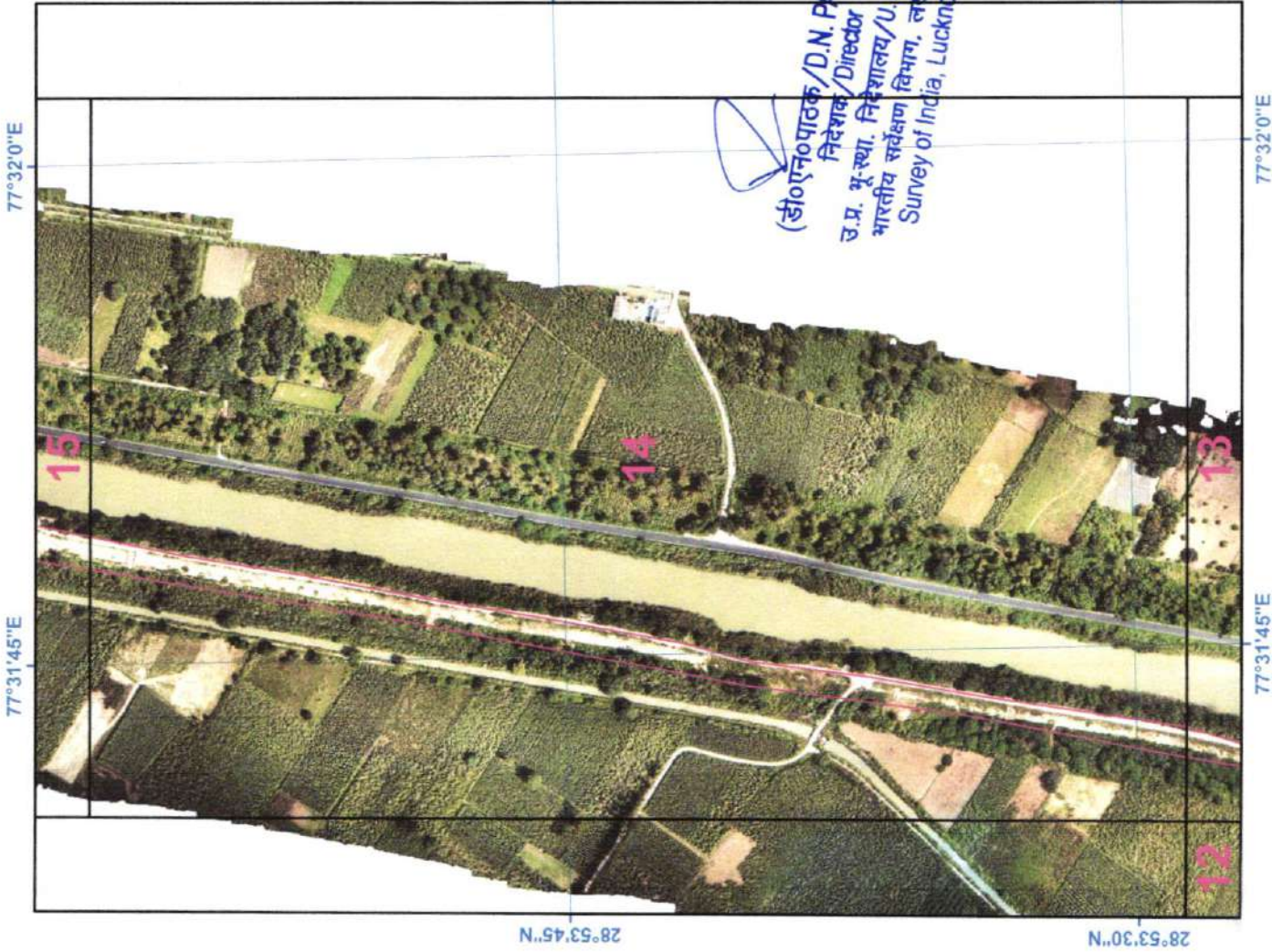
1328

28°53'0"N 77°31'45"E 77°32'0"E 28°53'0"N 31

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Satellite Images from NRSC of 2023 AREA_02_13



SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023

AREA_02_14

77°31'45"E

77°32'0"E



28°54'15"N

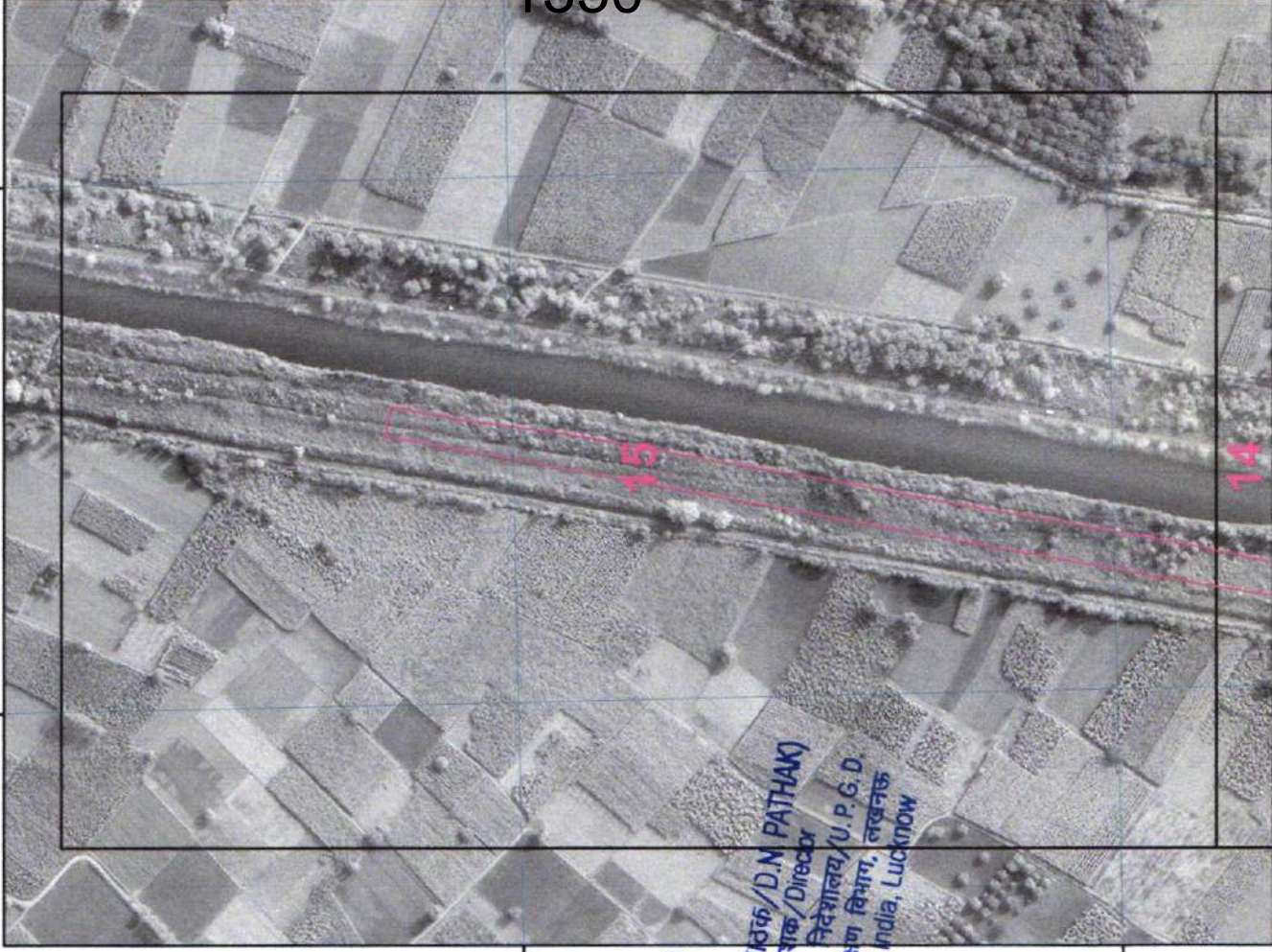
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77°31'45"E

77°32'0"E

77°31'45"E

77°32'0"E



28°54'15"N

28°54'0"N

77°31'45"E

77°32'0"E

1330

28°54'15"N

28°54'0"N

33

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77°32'15"E



28°55'45"N

28°55'30"N

77°32'15"E

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28°55'45"N

28°55'30"N



28°55'45"N

28°55'30"N

77°32'15"E

1331

34

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Satellite Images from NRSC of 2023 AREA_03_02

77°32'15"E

77°32'15"E



77°32'15"E



77°32'15"E

28°56'15"N

1332

28°56'0"N

35

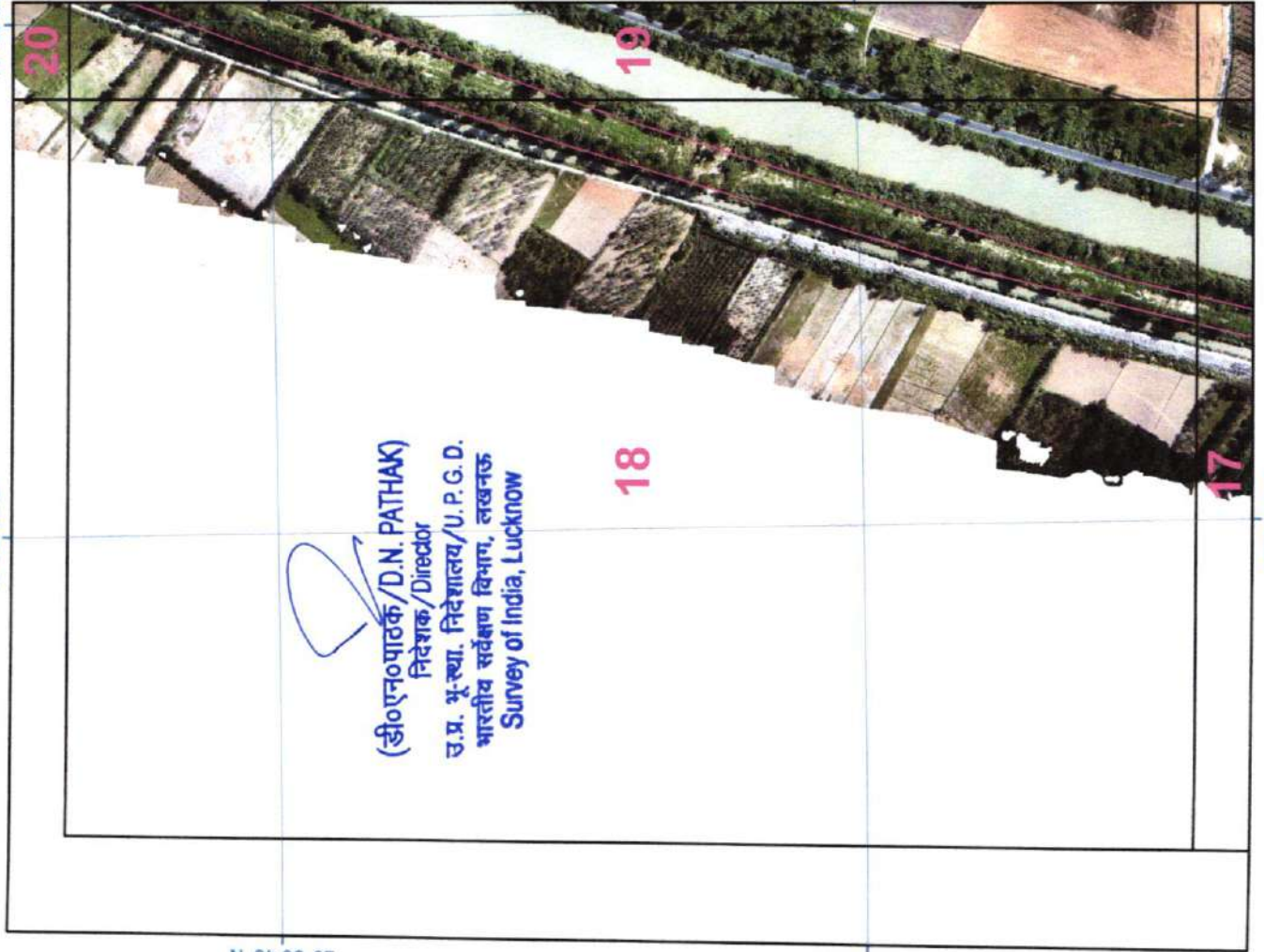
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Satellite Images from NRSC of 2023 AREA_03_03

77°32'15"E

77°32'30"E



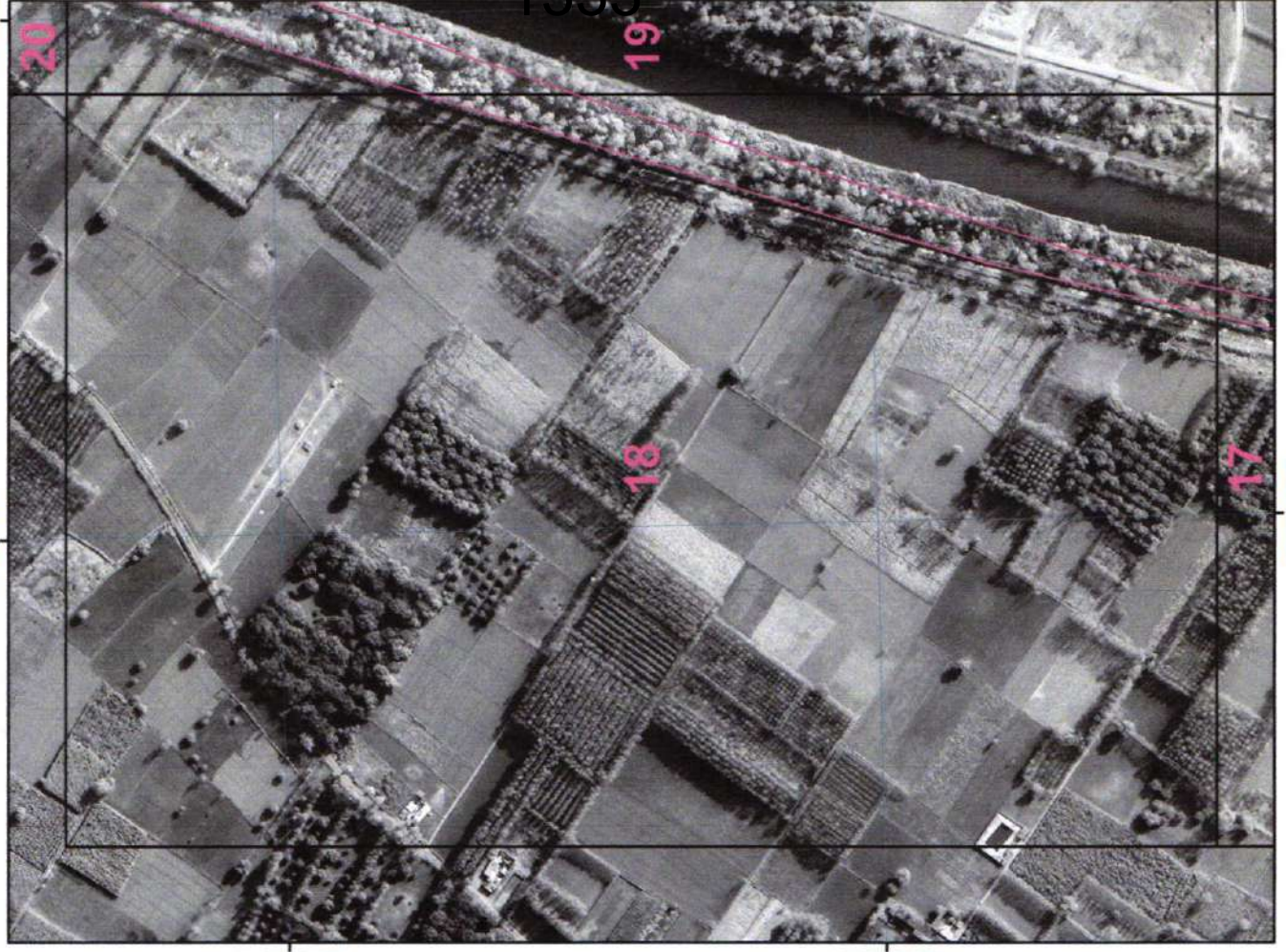
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28°56'30"N

77°32'15"E

77°32'15"E

77°32'30"E



28°56'45"N

28°56'30"N

77°32'15"E

1333

36

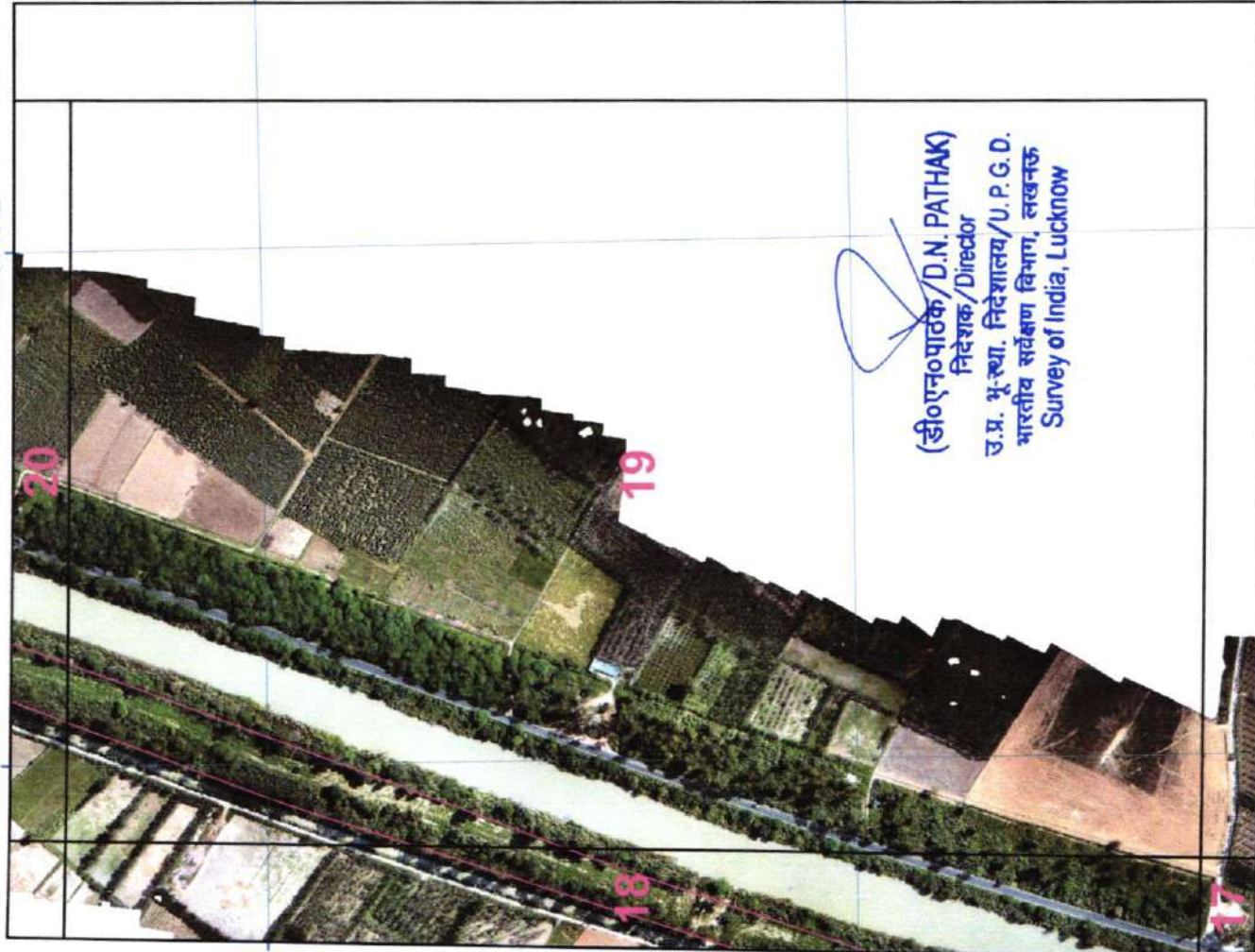
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Satellite Images from NRSC of 2023 AREA_03_04

77°32'30"E

77°32'45"E



77°32'30"E

77°32'45"E



28°56'45"N

28°56'45"N

28°56'45"N

28°56'30"N

28°56'30"N

28°56'30"N

77°32'30"E

77°32'45"E

77°32'30"E

77°32'45"E

1334

37

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Satellite Images from NRSC of 2023 AREA_03_05

77°32'30"E

77°32'45"E

77°32'30"E

77°32'45"E

28°57'15"N

28°57'15"N

28°57'15"N

28°57'0"N

28°57'0"N

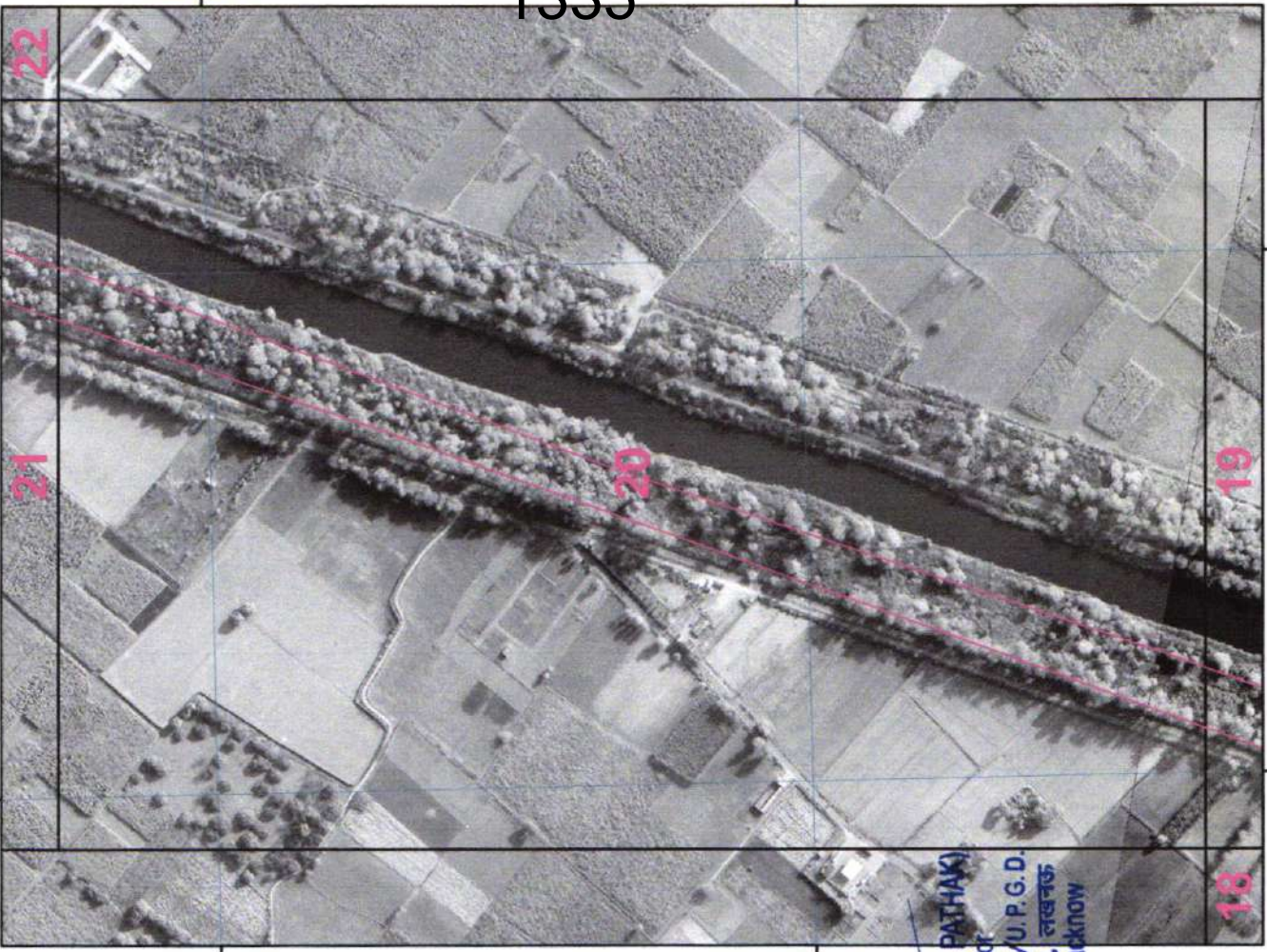
28°57'0"N

77°32'30"E

77°32'45"E

77°32'30"E

77°32'45"E



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1335

38

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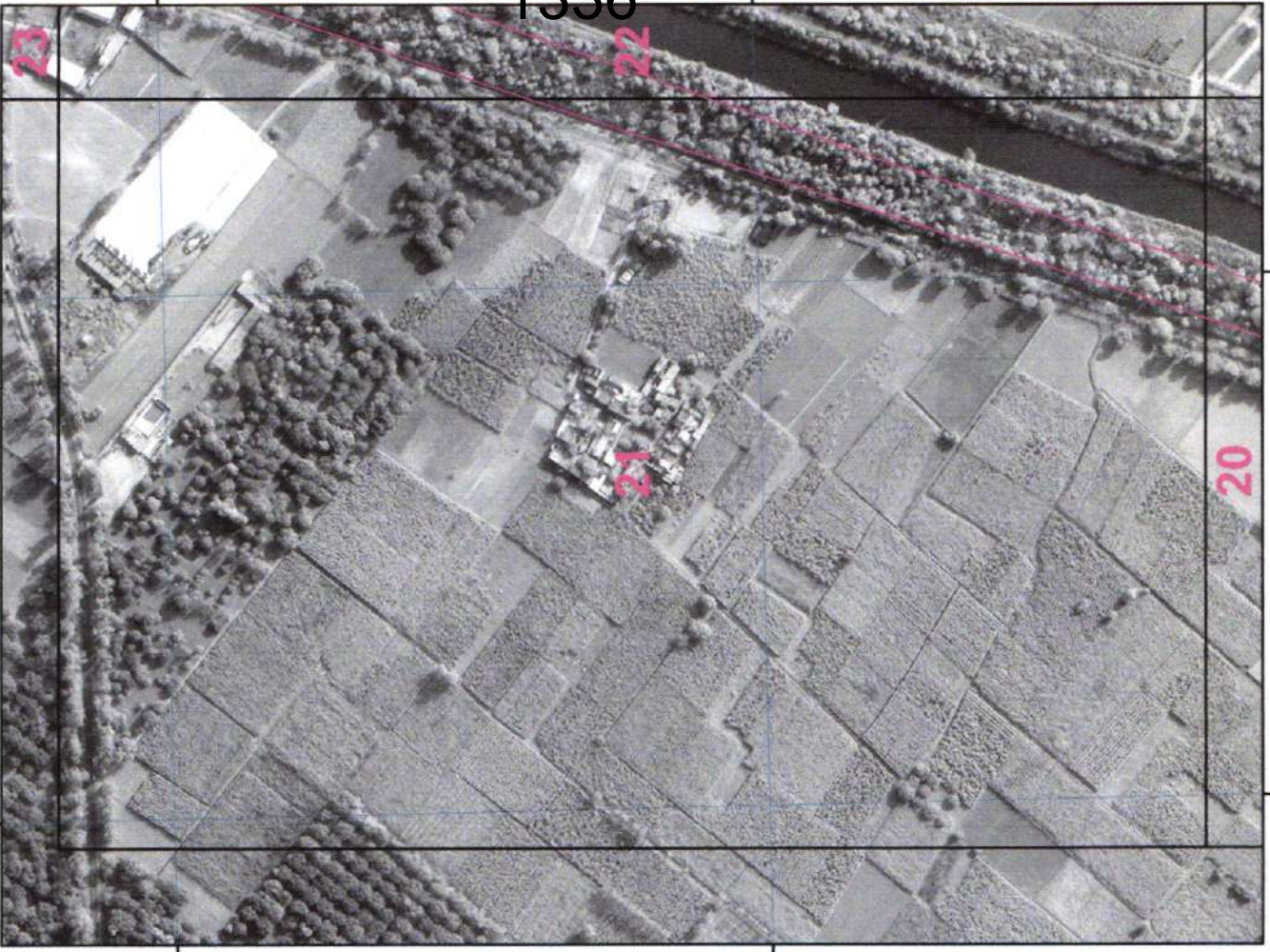
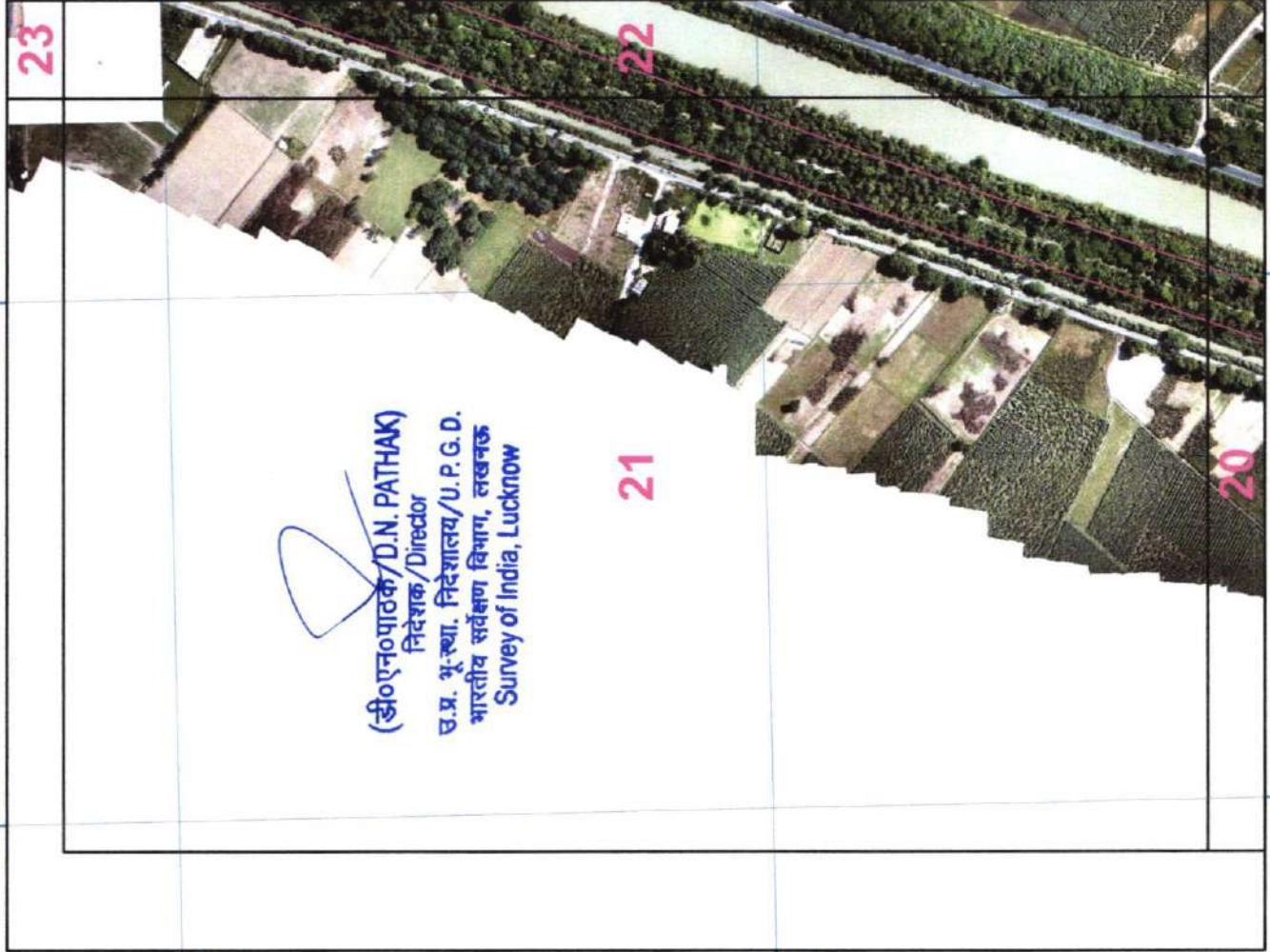
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77°32'30"E

77°32'45"E

77°32'30"E

77°32'45"E



1336

77°32'30"E

77°32'45"E

77°32'30"E

77°32'45"E

39

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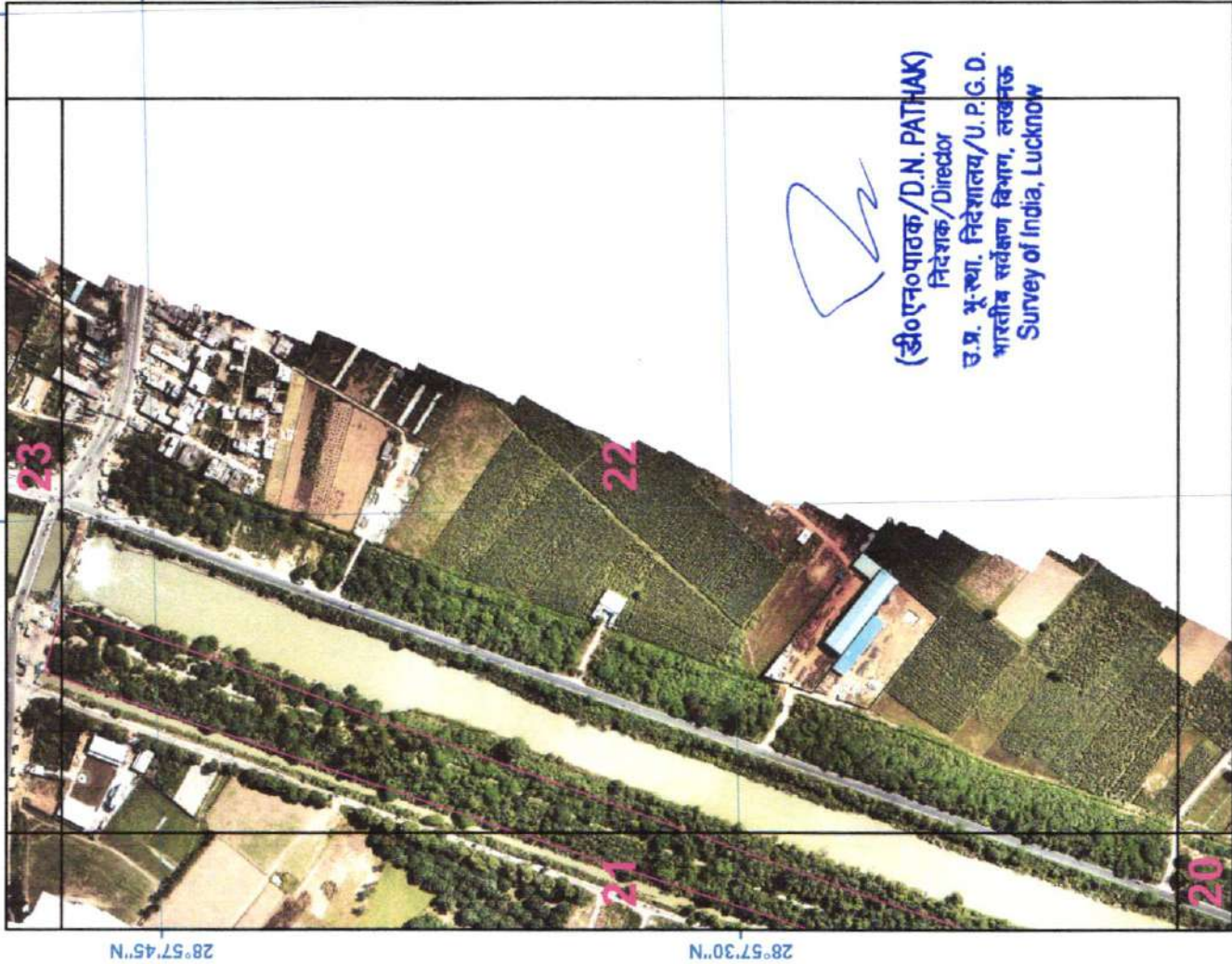
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Satellite Images from NRSC of 2023 AREA_03_07

77°33'0"E

77°33'15"E

77°33'0"E



28°57'45"N

28°57'30"N

28°57'45"N

28°57'30"N

28°57'45"N

28°57'30"N

28°57'45"N

28°57'30"N

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28°57'30"N

28°57'45"N

28°57'30"N

1337

77°33'0"E

77°33'0"E

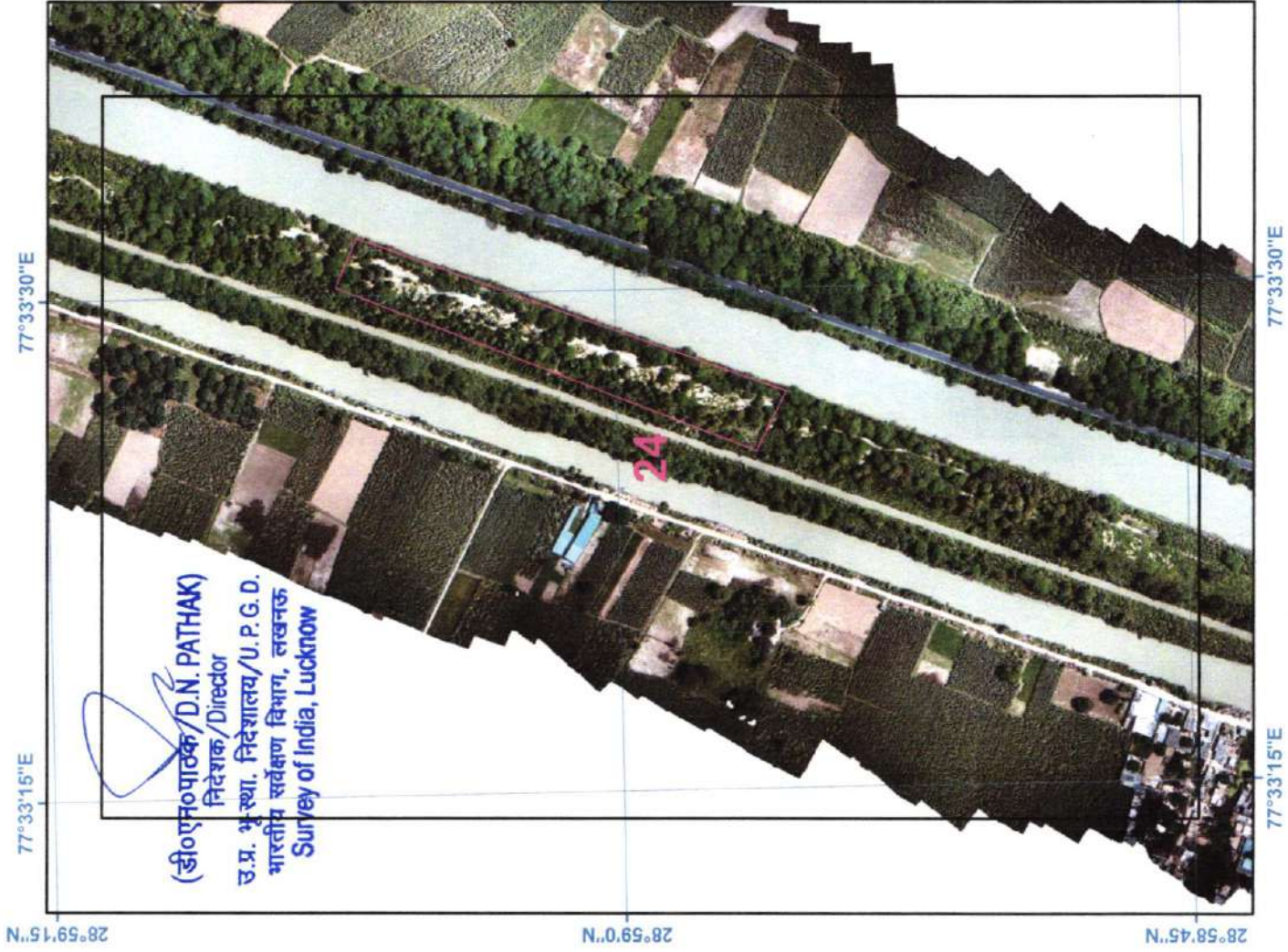
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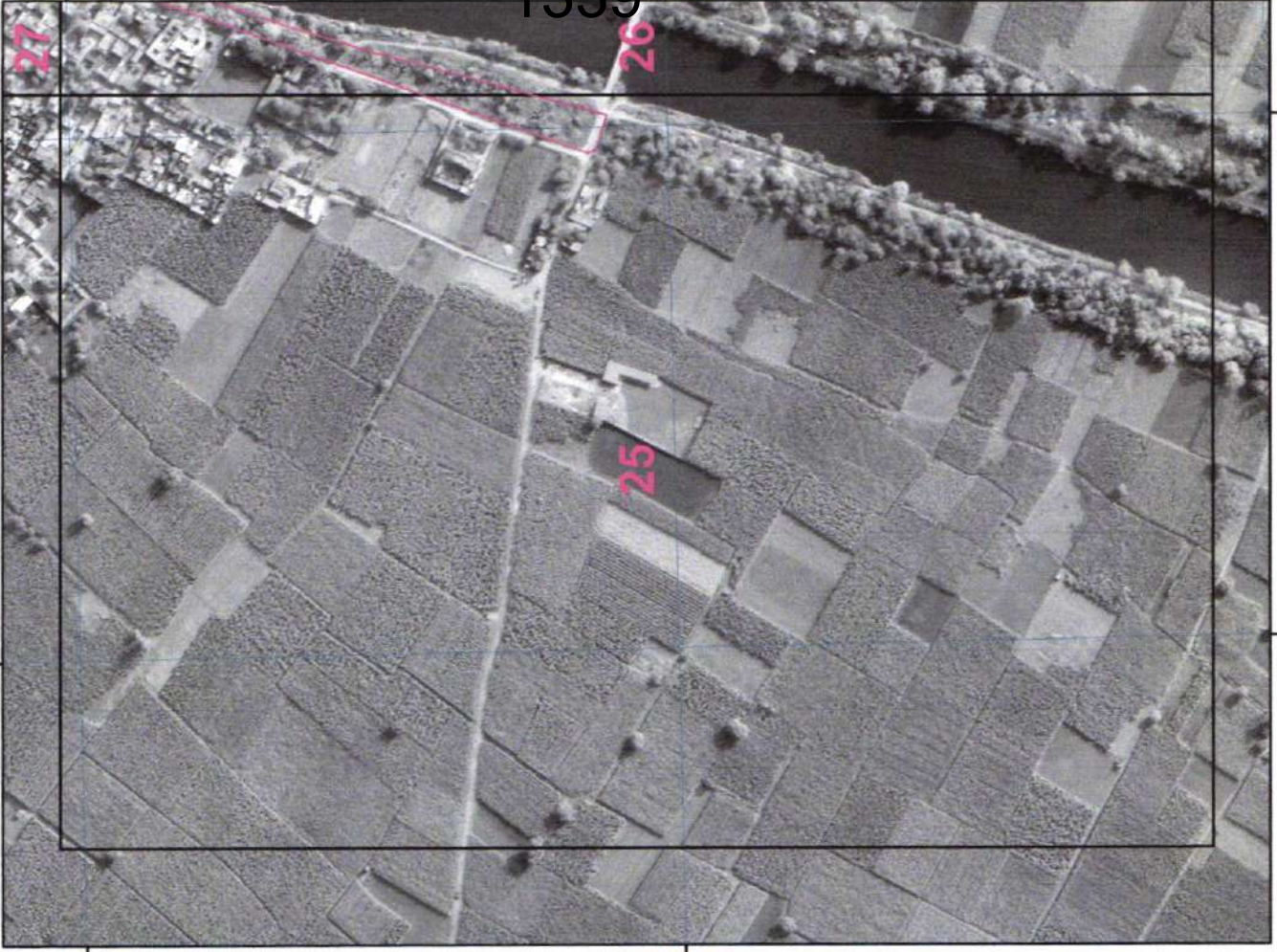
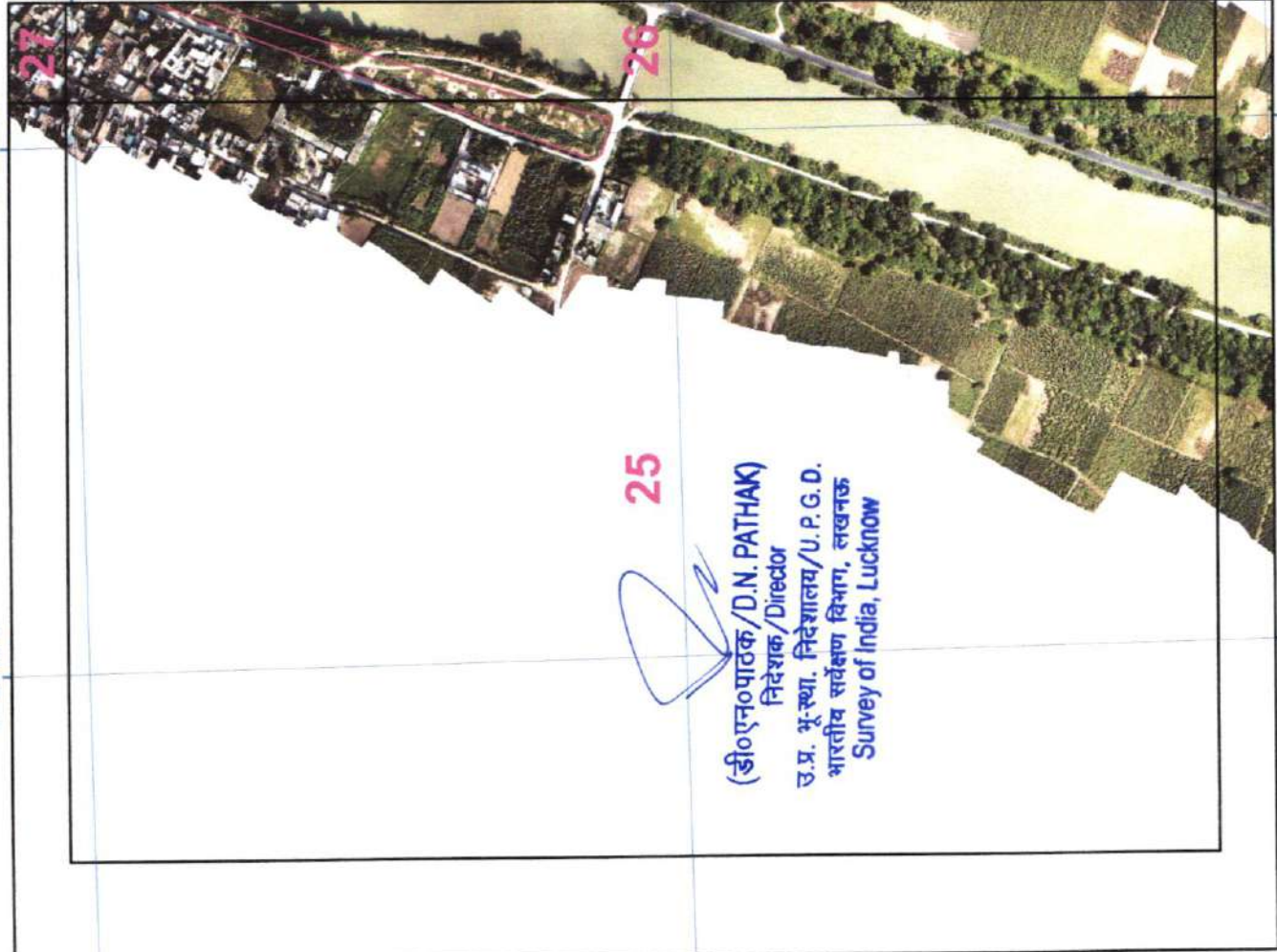
Satellite Images from NRSC of 2023 AREA 05_01

77°35'15"E

77°35'30"E

29°4'0"N

29°4'0"N



1339

42

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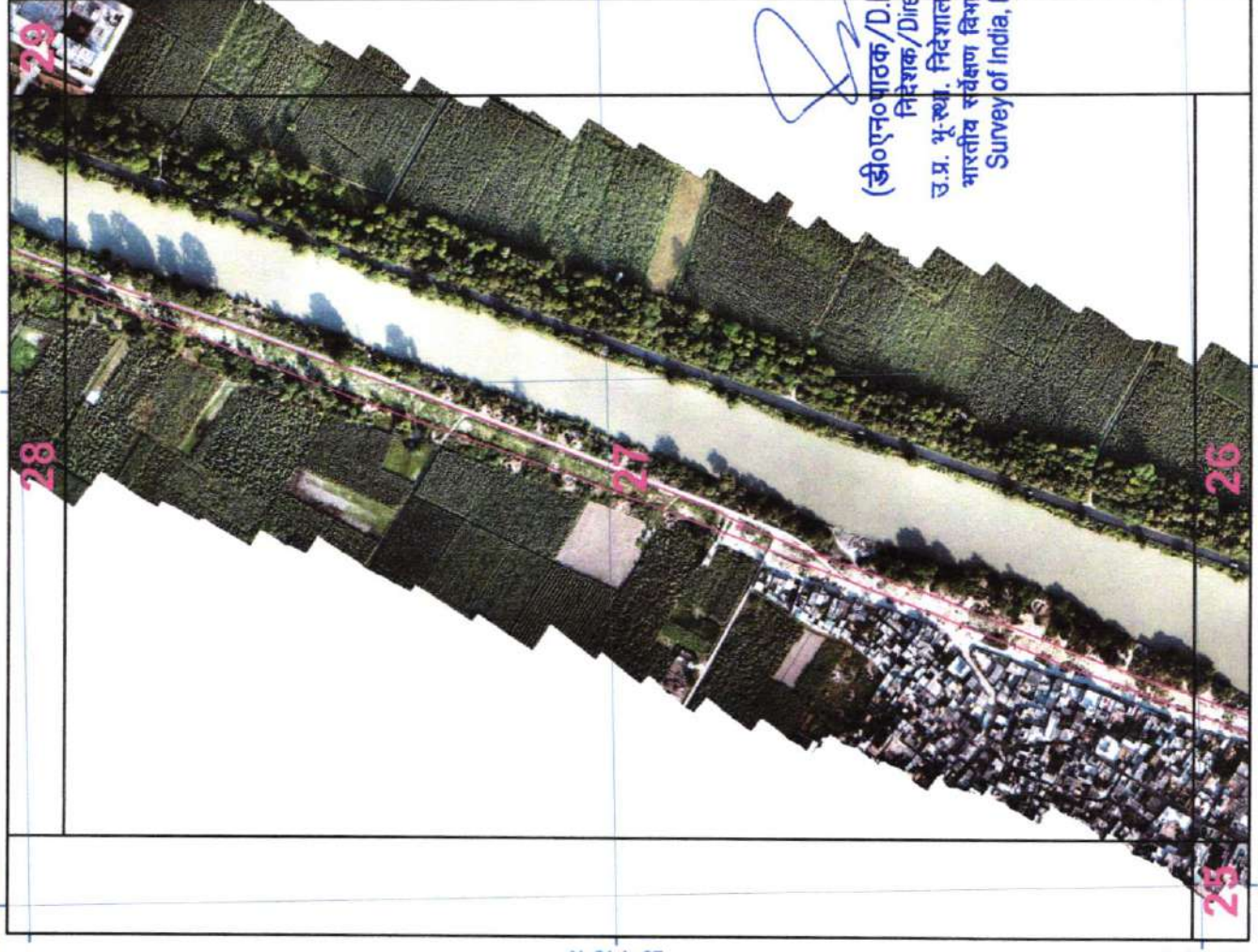
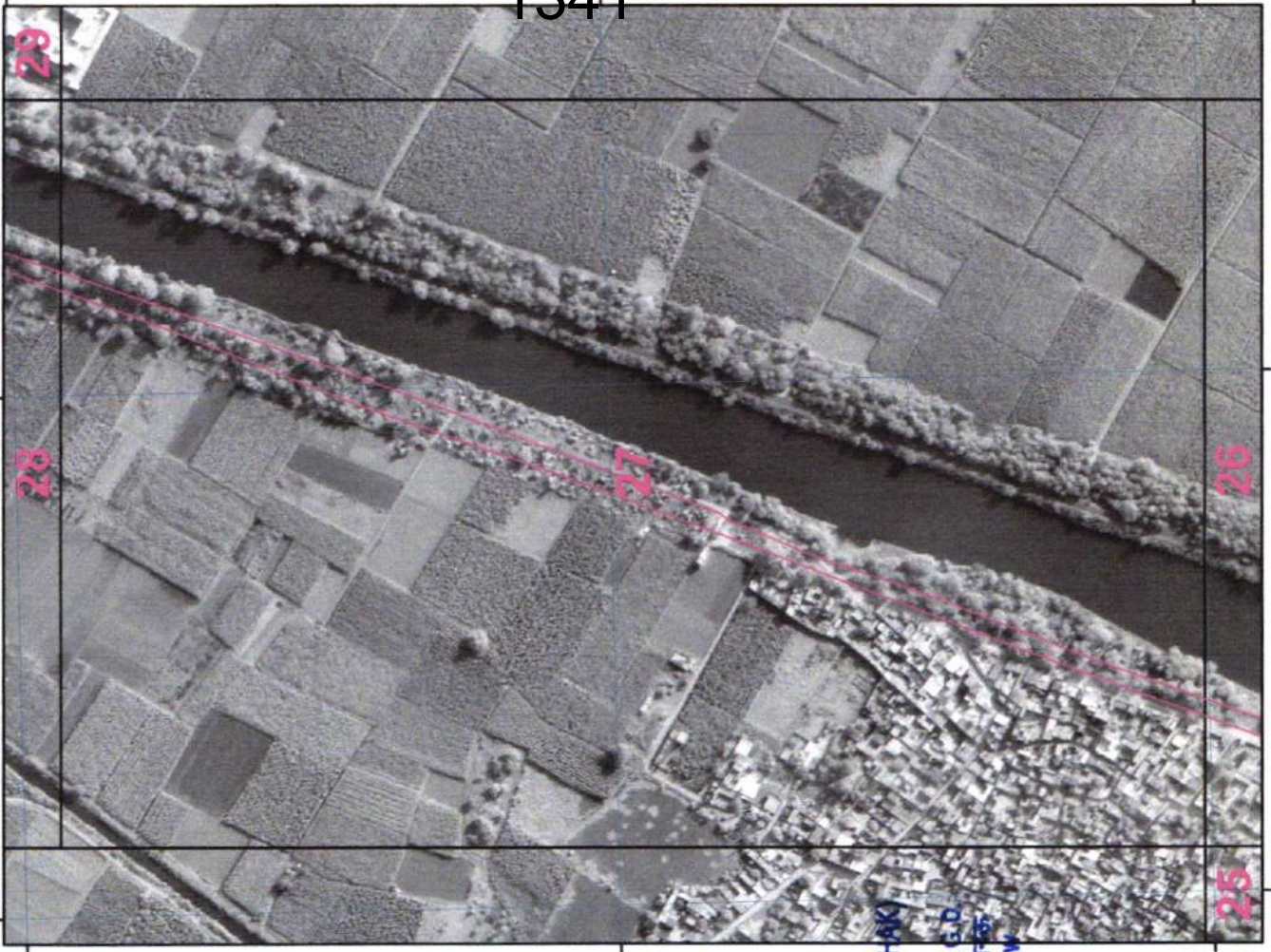
Satellite Images from NRSC of 2023 AREA_05_03

29°4'30"N

77°35'30"E

29°4'30"N

77°35'45"E



1341

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29°4'0"N 44

29°4'0"N

29°4'0"N

77°35'45"E

77°35'30"E

77°35'45"E

77°35'30"E

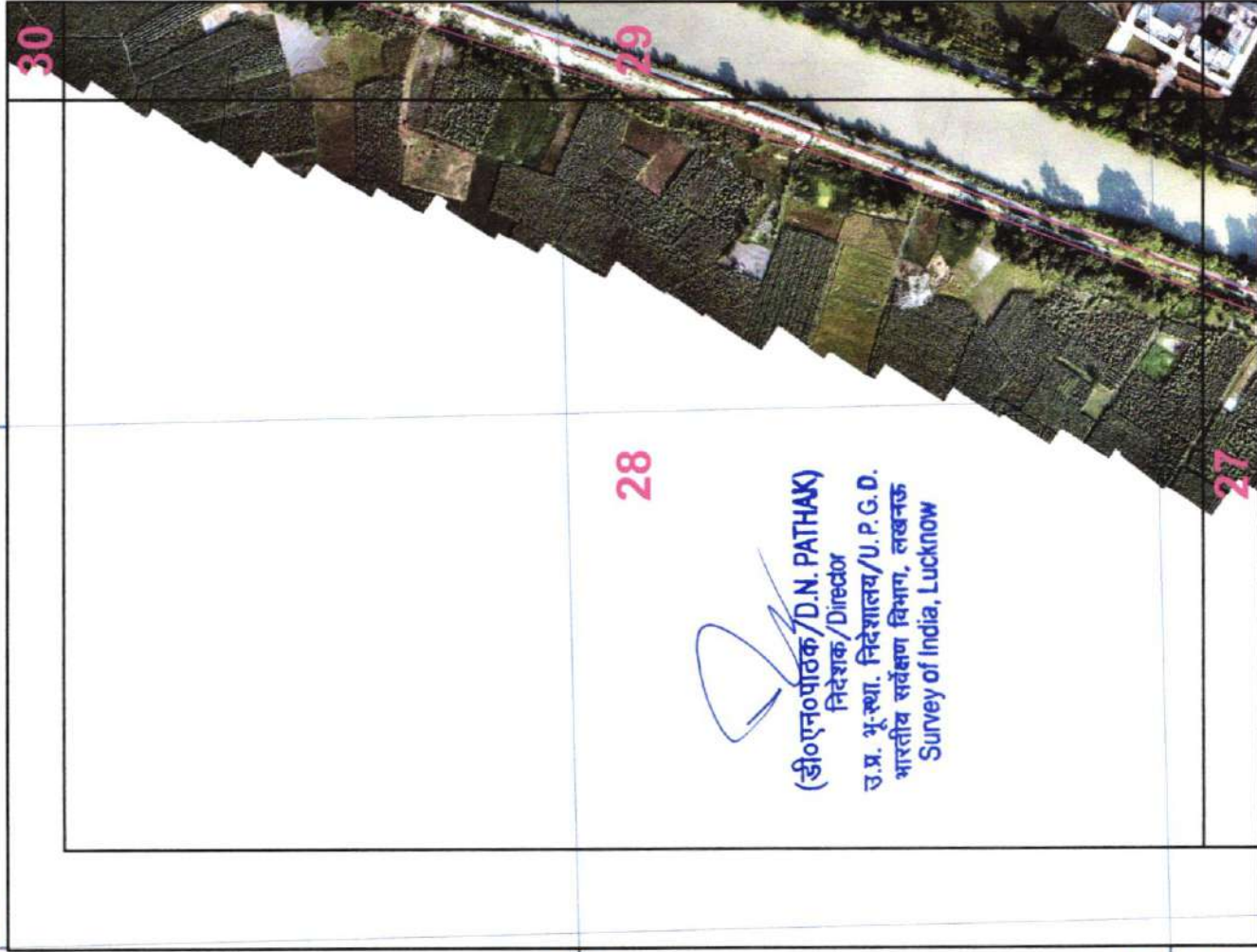
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Satellite Images from NRSC of 2023 AREA_05_04

77°35'30"E

77°35'45"E



1342

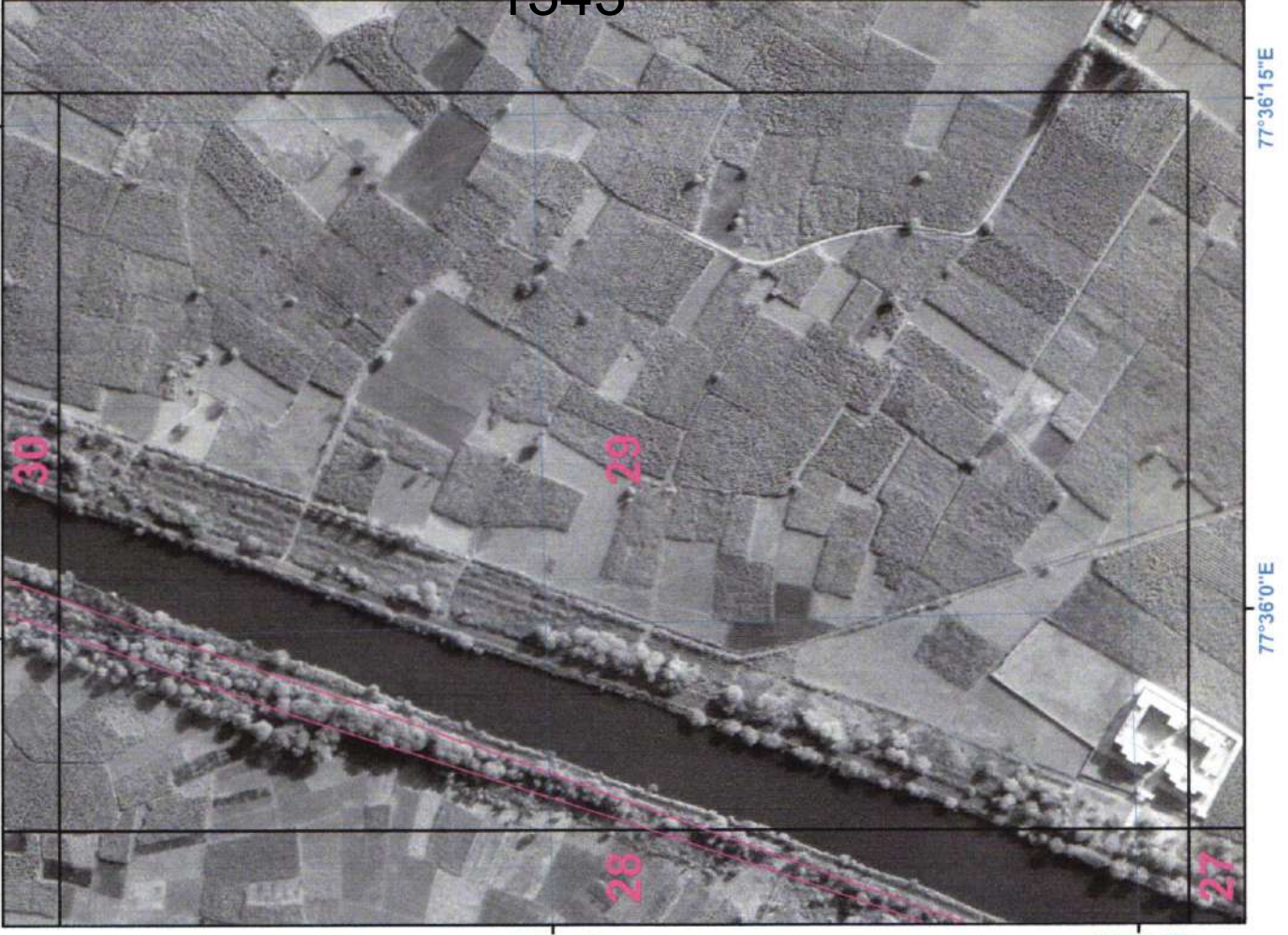
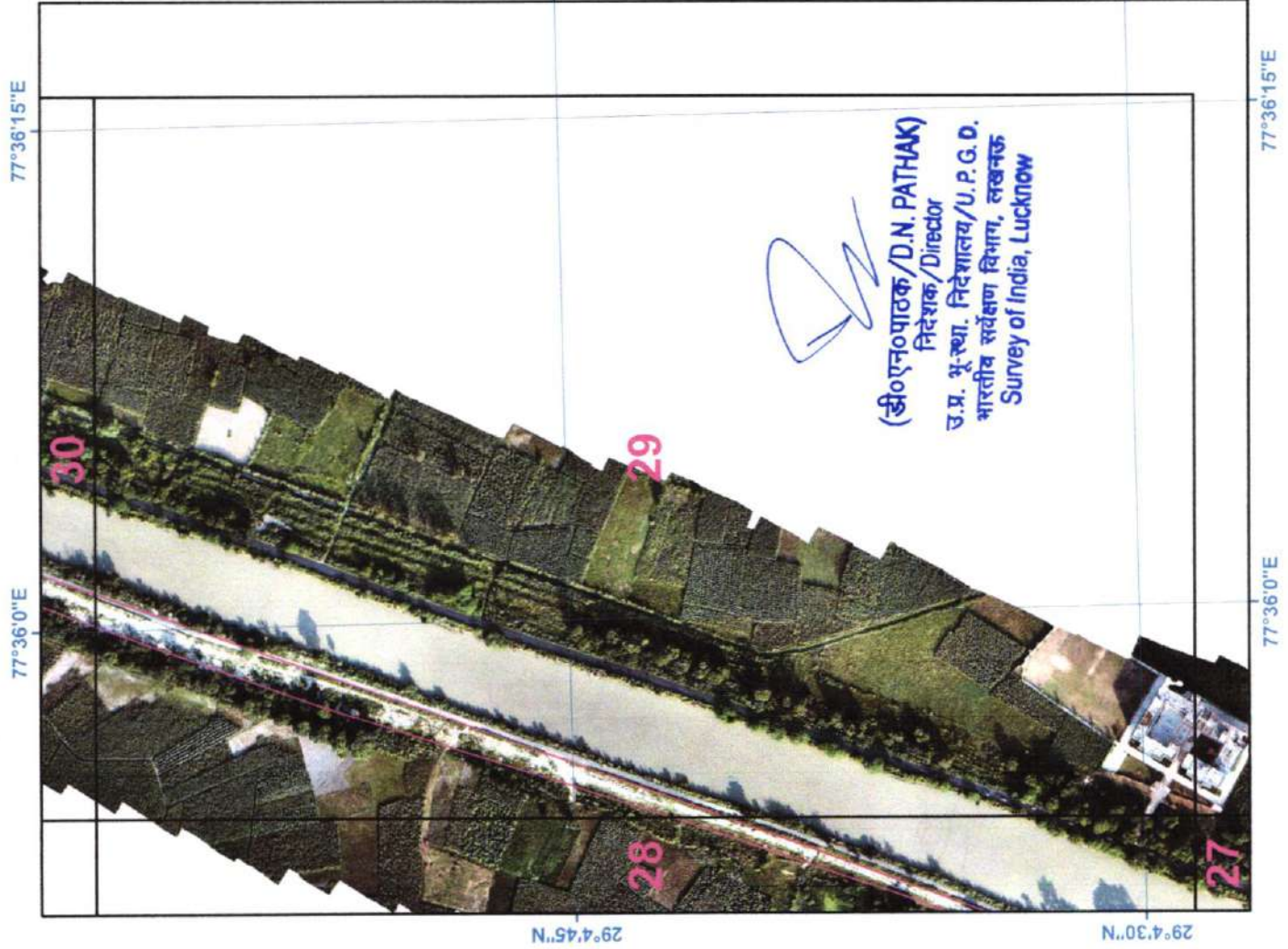
29°4'30"N

45

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Satellite Images from NRSC of 2023 AREA_05_05



1343

29°4'30"N

46

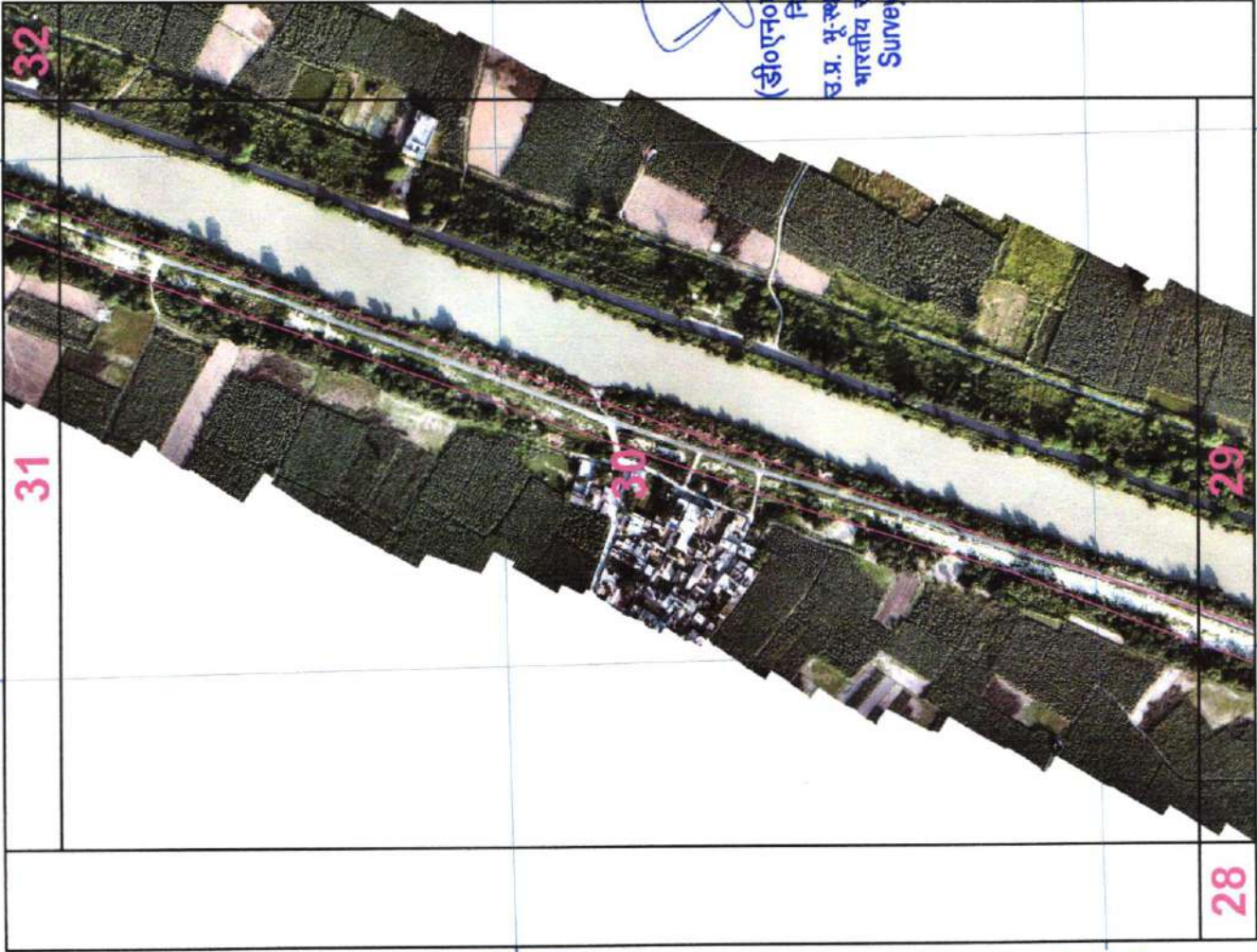
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Satellite Images from NRSC of 2023 AREA 05_06

77°36'0"E

77°36'15"E



77°36'0"E

77°36'15"E



29°5'15"N

29°5'15"N

29°5'15"N

N.0.5'0"N

29°5'0"N

N.0.5'0"N

77°36'0"E

77°36'15"E

77°36'0"E

77°36'15"E

47

1344

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Satellite Images from NRSC of 2023

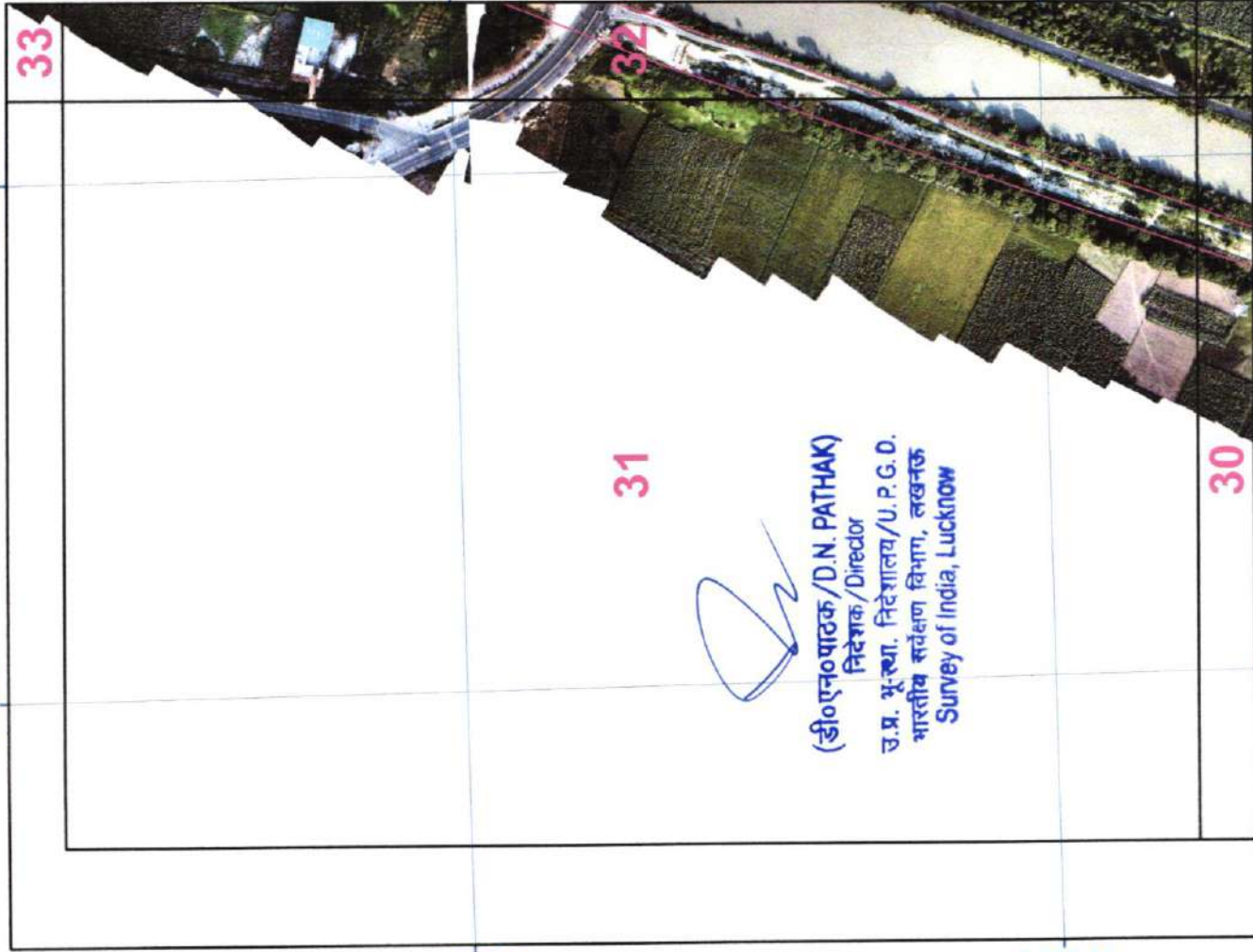
AREA 05_07

77°36'0"E

77°36'15"E

77°36'0"E

77°36'15"E



1345

48

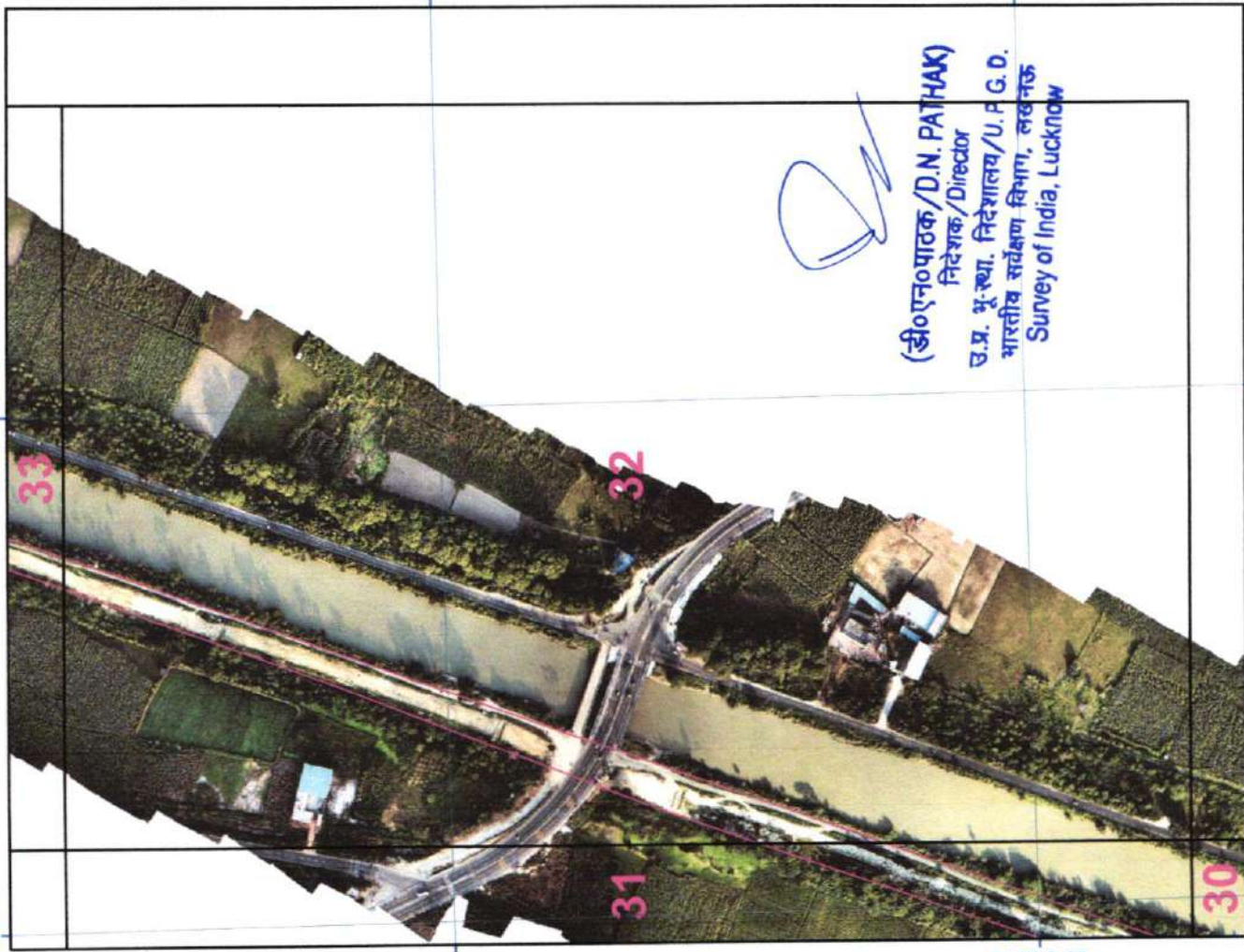
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Satellite Images from NRSC of 2023 AREA_05_08

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77°36'30"E



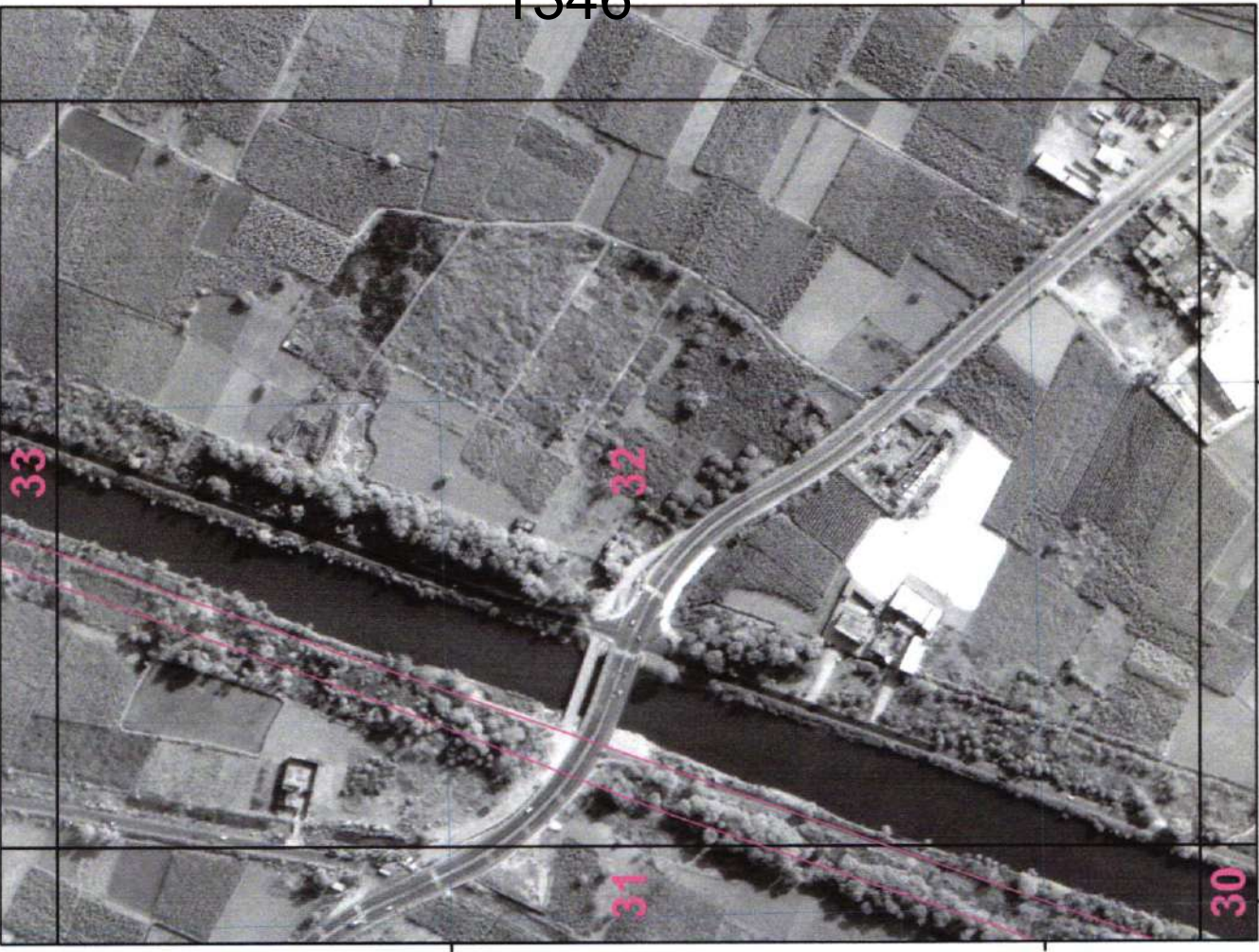
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उ.प्र. भू-स्था. निदेशालय/U.P.G.D.
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77°36'15"E

77°36'30"E

77°36'15"E

77°36'30"E



77°36'30"E

29°5'45"N

29°5'45"N

29°5'30"N

29°5'30"N

29°5'45"N

29°5'30"N

1346

49

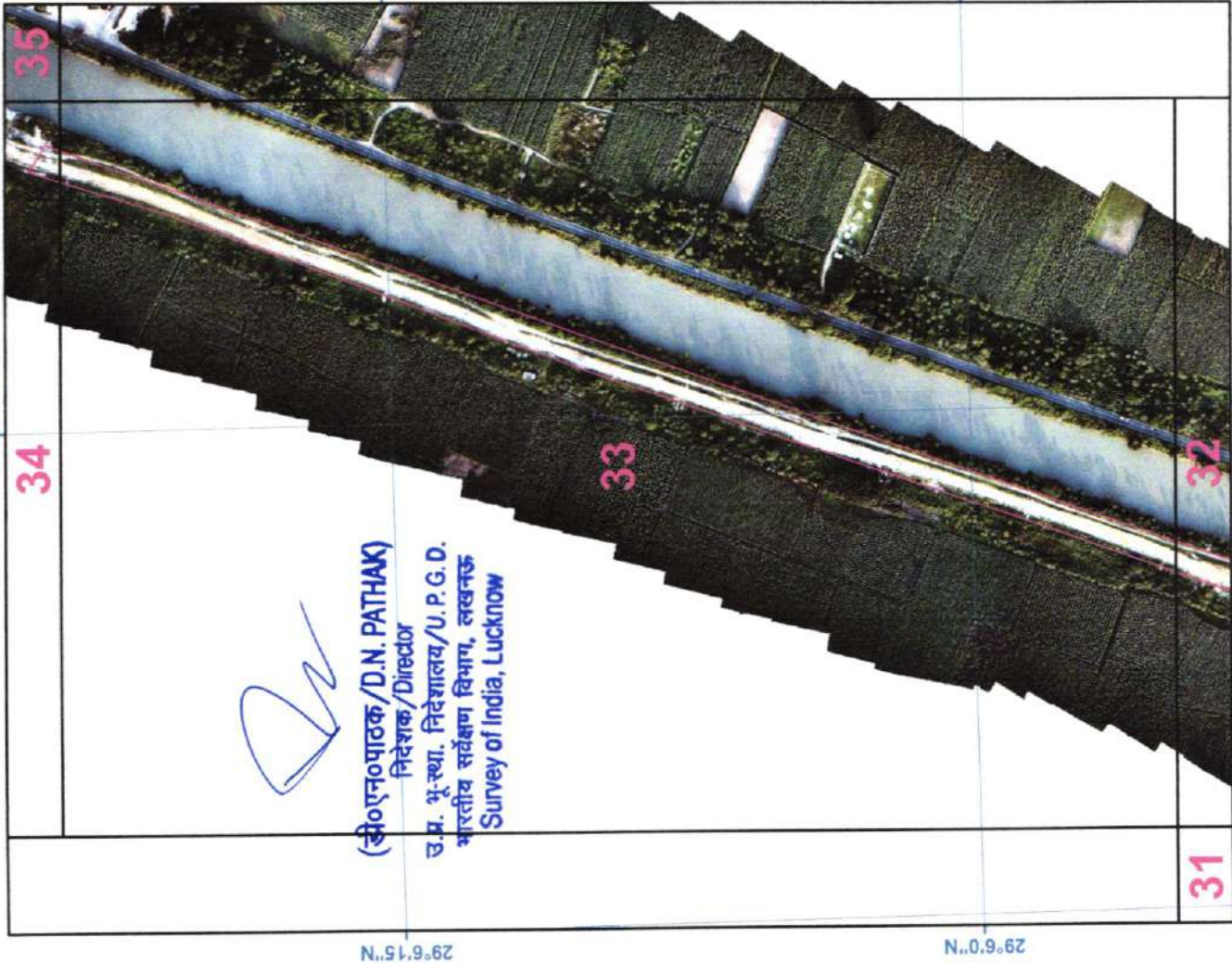
SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA_05_09

77°36'30"E

77°36'30"E



29°6'15"N

1347

29°6'0"N

50

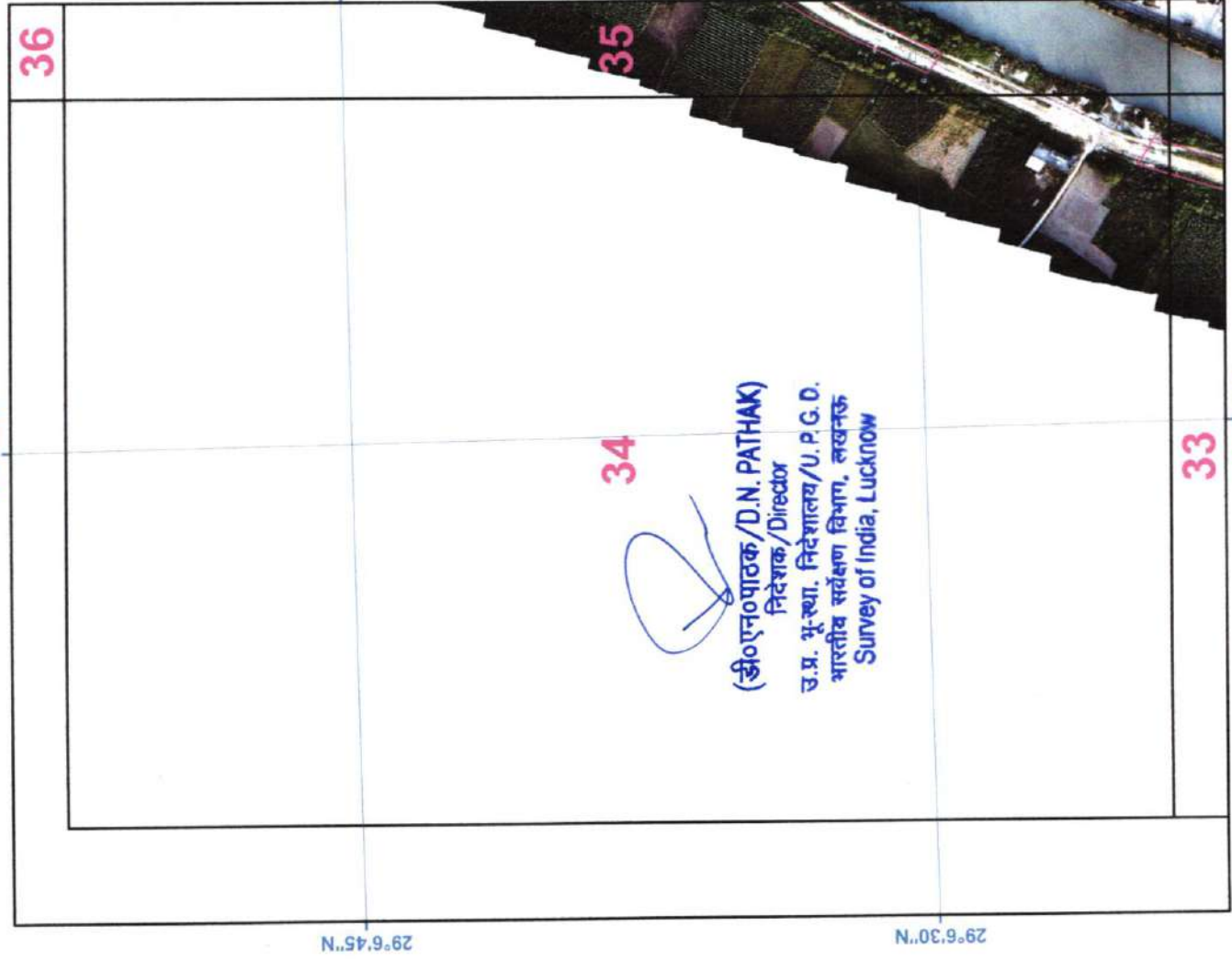
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Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_05_10

77°36'30"E

77°36'30"E



29°6'45"N

1348

29°6'30"N

51

29°6'45"N

29°6'30"N

77°36'30"E

77°36'30"E

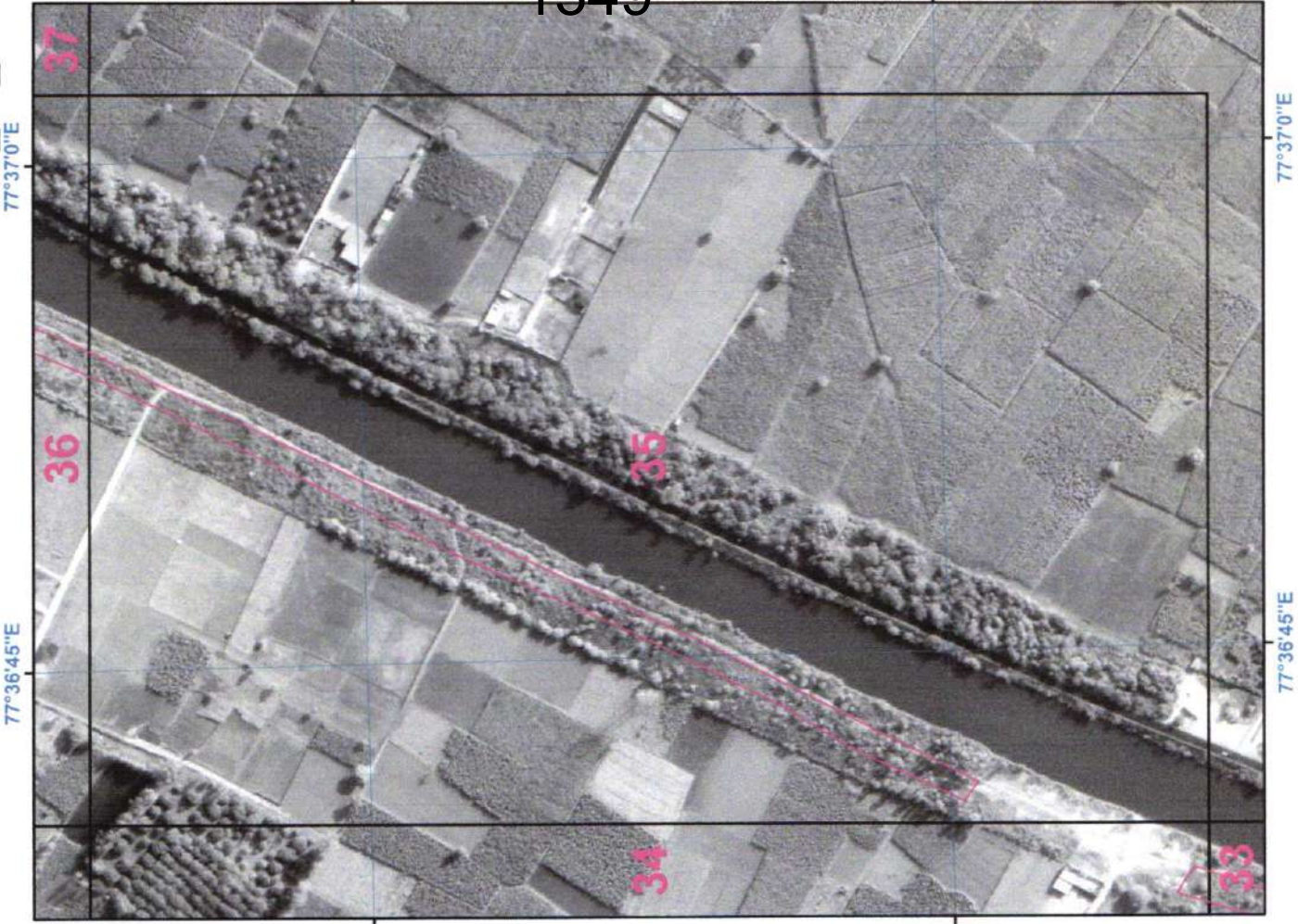
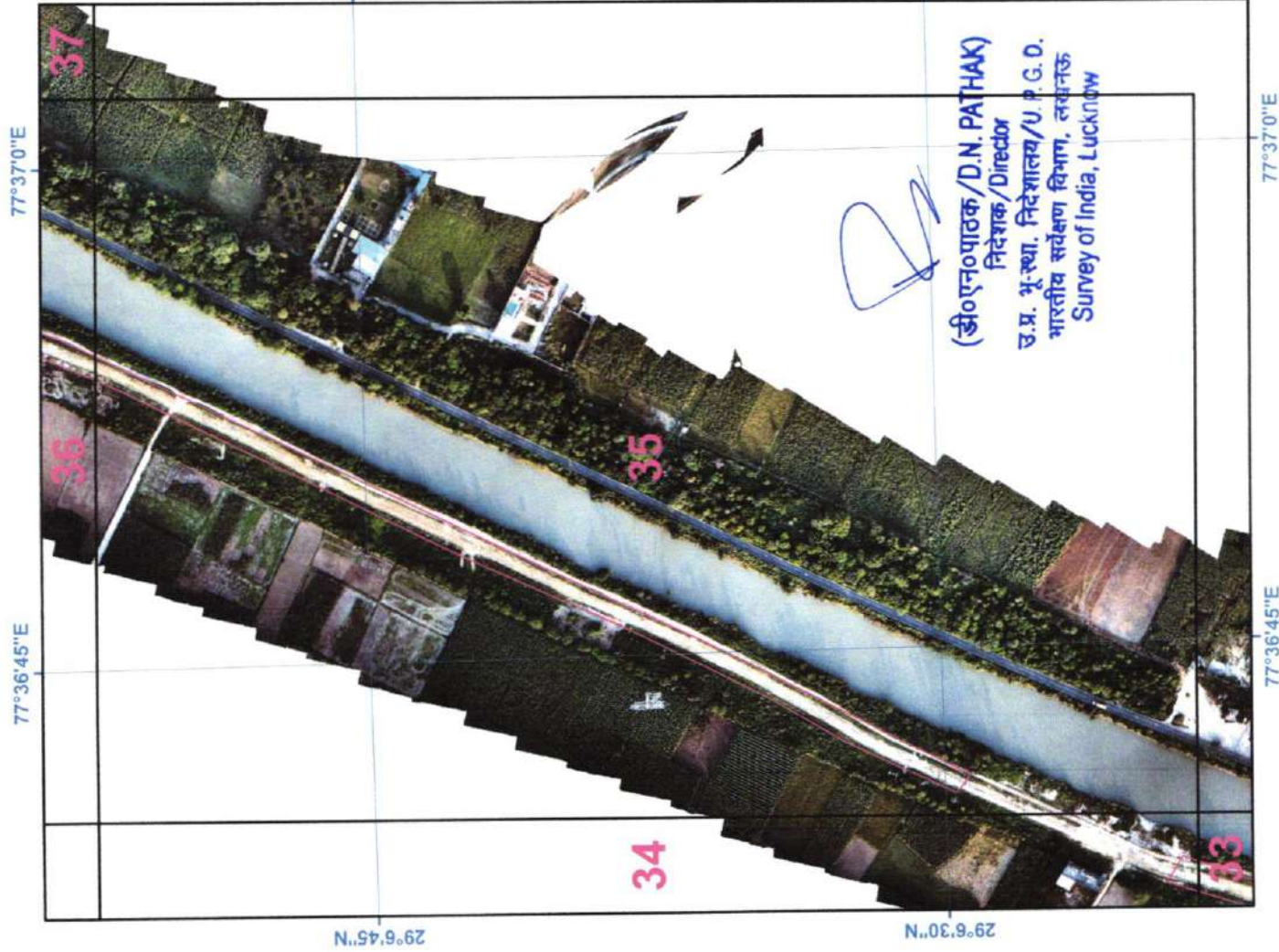
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29°6'30"N

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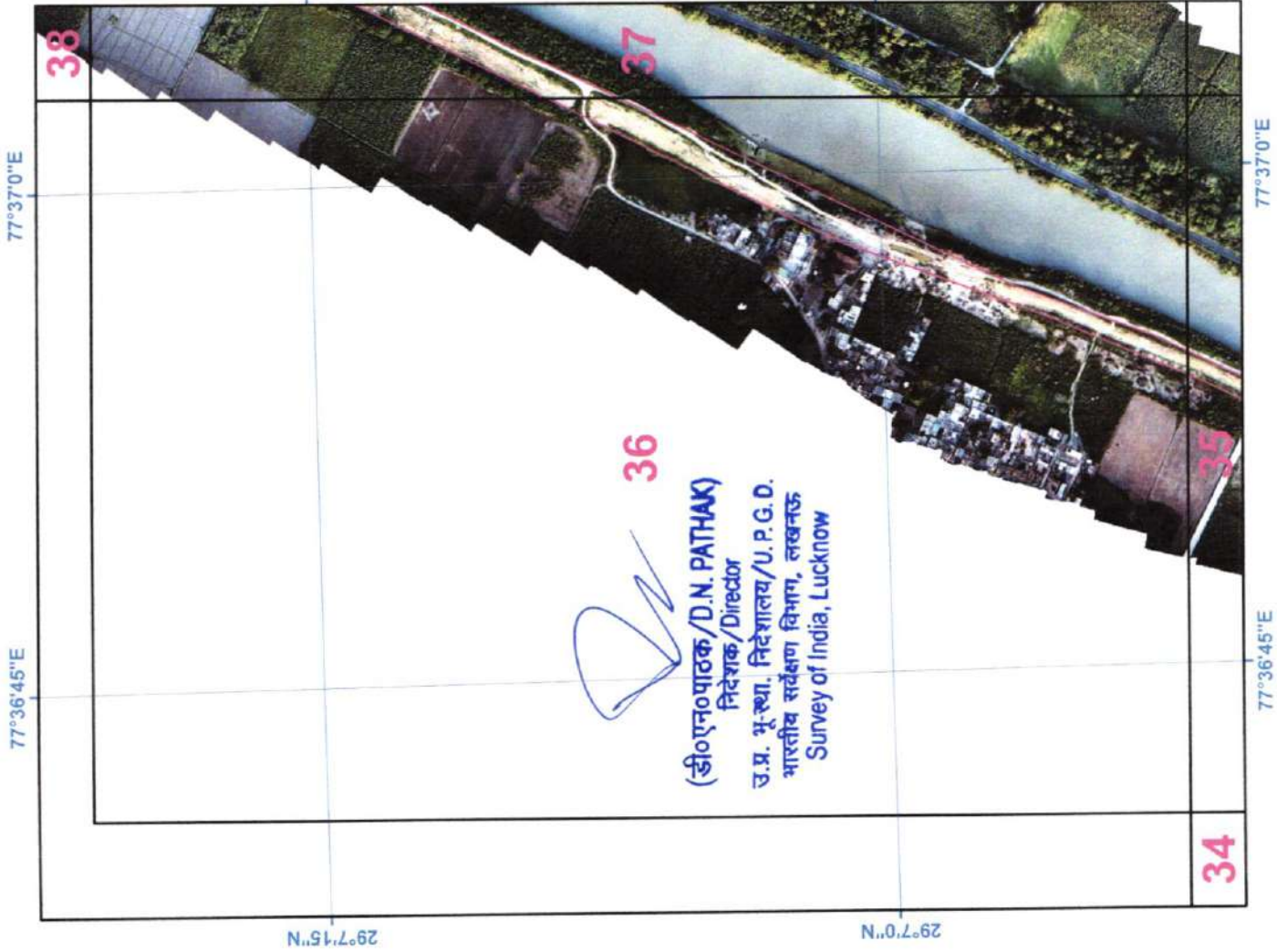
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52

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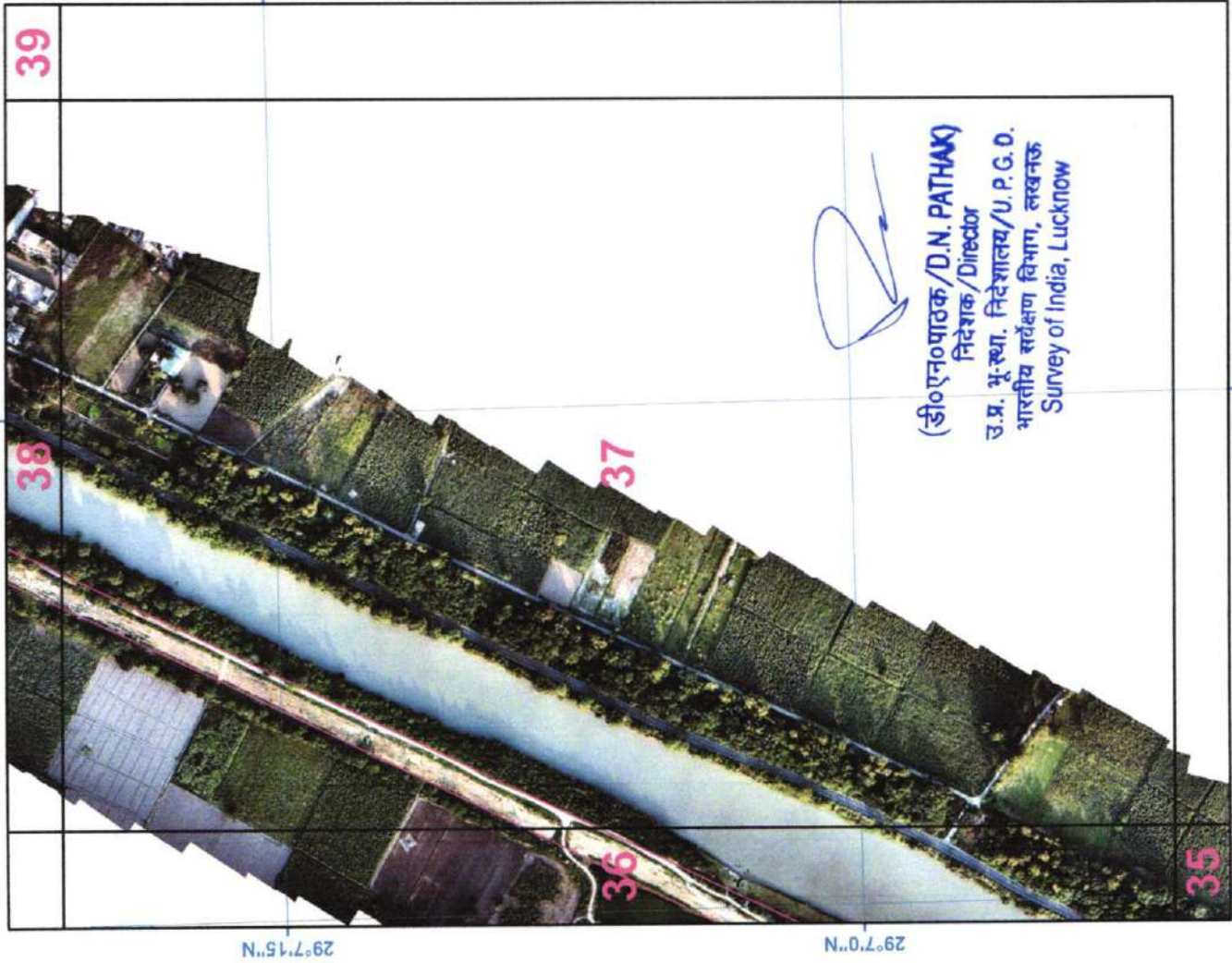
1350

53

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77°37'15"E



77°37'0"E

77°37'15"E

Satellite Images from NRSC of 2023

77°37'15"E



77°37'0"E

77°37'15"E

1351

54

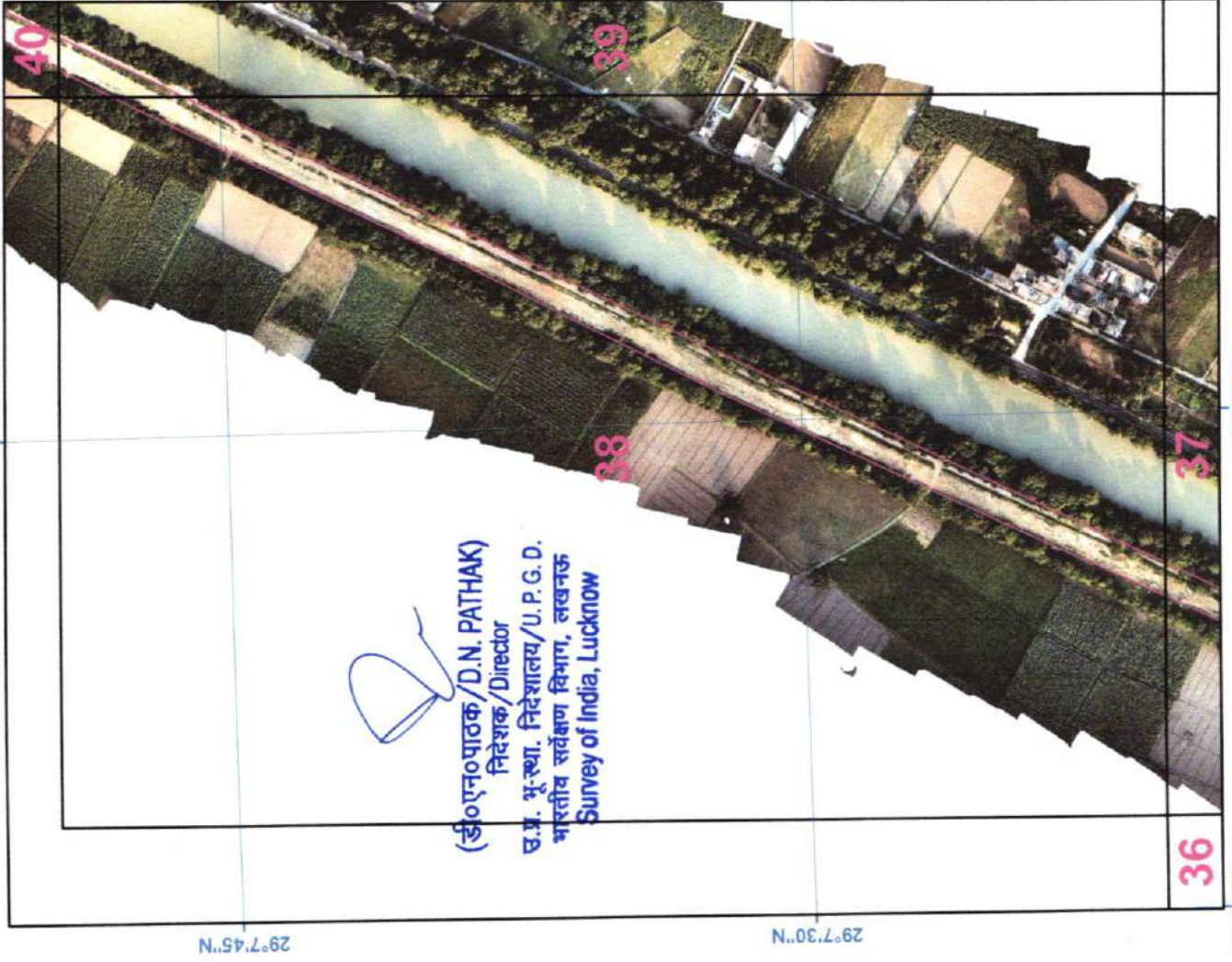
AREA_06_03

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Satellite Images from NRSC of 2023 AREA_06_04

77°37'15"E



29°7'45"N

29°7'30"N

77°37'0"E

36

37

38

39

40

29°7'45"N

29°7'30"N

77°37'15"E

36

37

38

39

40

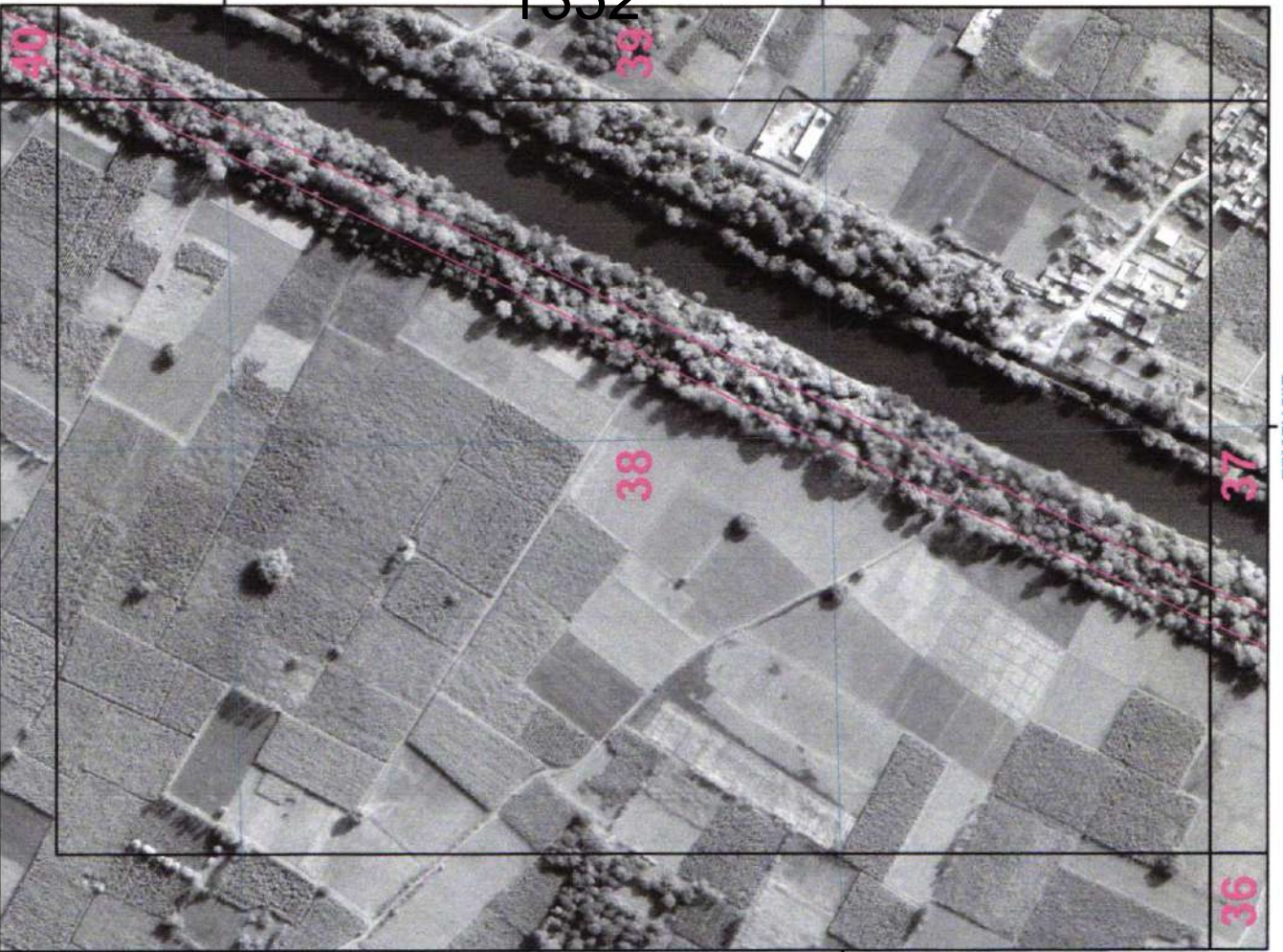
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29°7'30"N

77°37'15"E

55

1352



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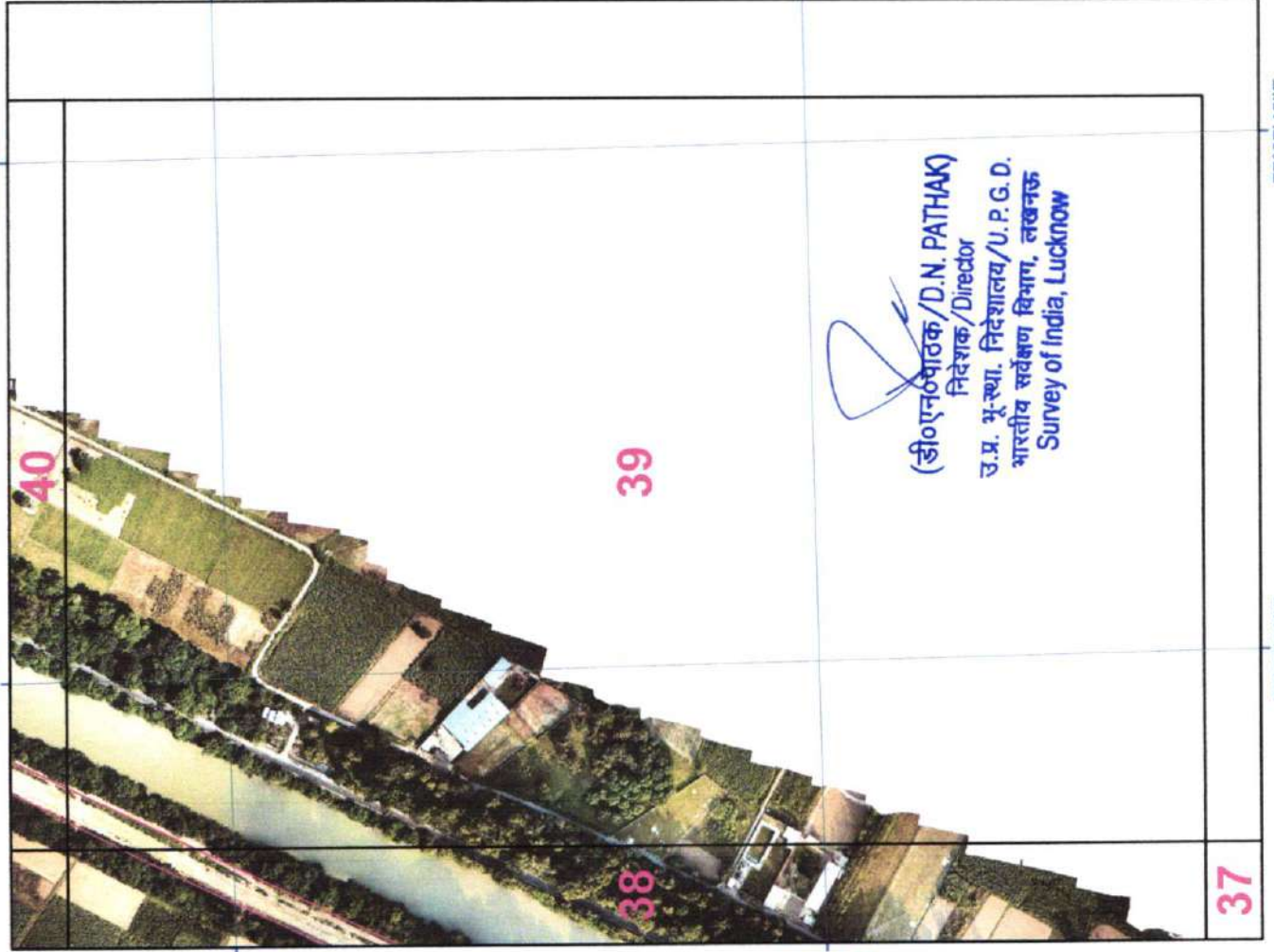
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77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E



29°7'45"N

29°7'45"N

29°7'45"N

29°7'30"N

29°7'30"N

29°7'30"N

77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E

1353

29°7'45"N

29°7'30"N

56

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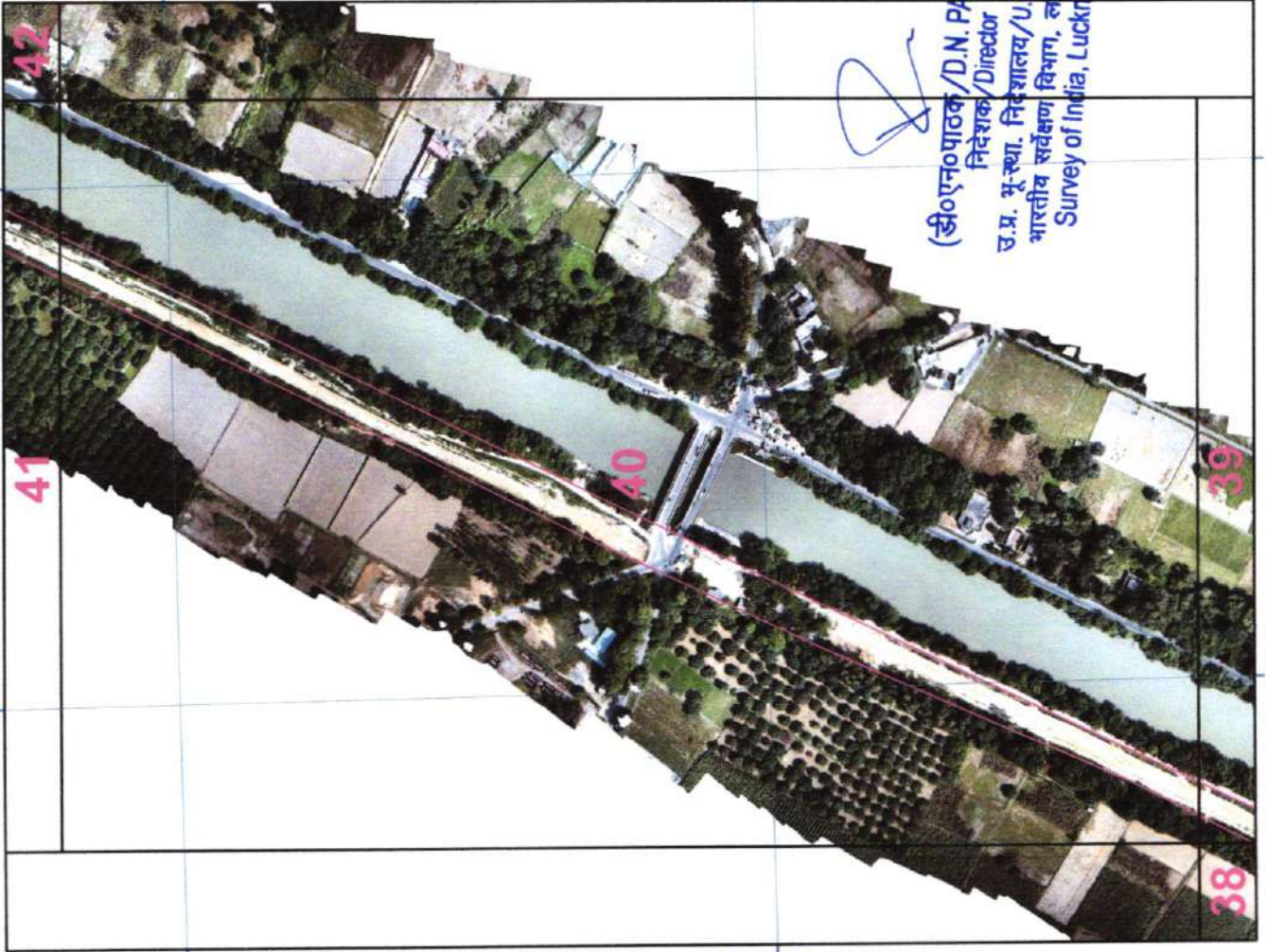
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77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E



29°8'15"N

29°8'15"N

29°8'0"N

29°8'0"N

77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E

29°8'15"N

29°8'15"N

29°8'0"N

29°8'0"N

77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E

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1354

29°8'15"N

29°8'0"N

57

77°37'45"E

77°37'30"E

77°37'45"E

77°37'30"E

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023

AREA_06_07

77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E

29°8'45"N

29°8'45"N

29°8'45"N

29°8'45"N

29°8'30"N

29°8'30"N

29°8'30"N

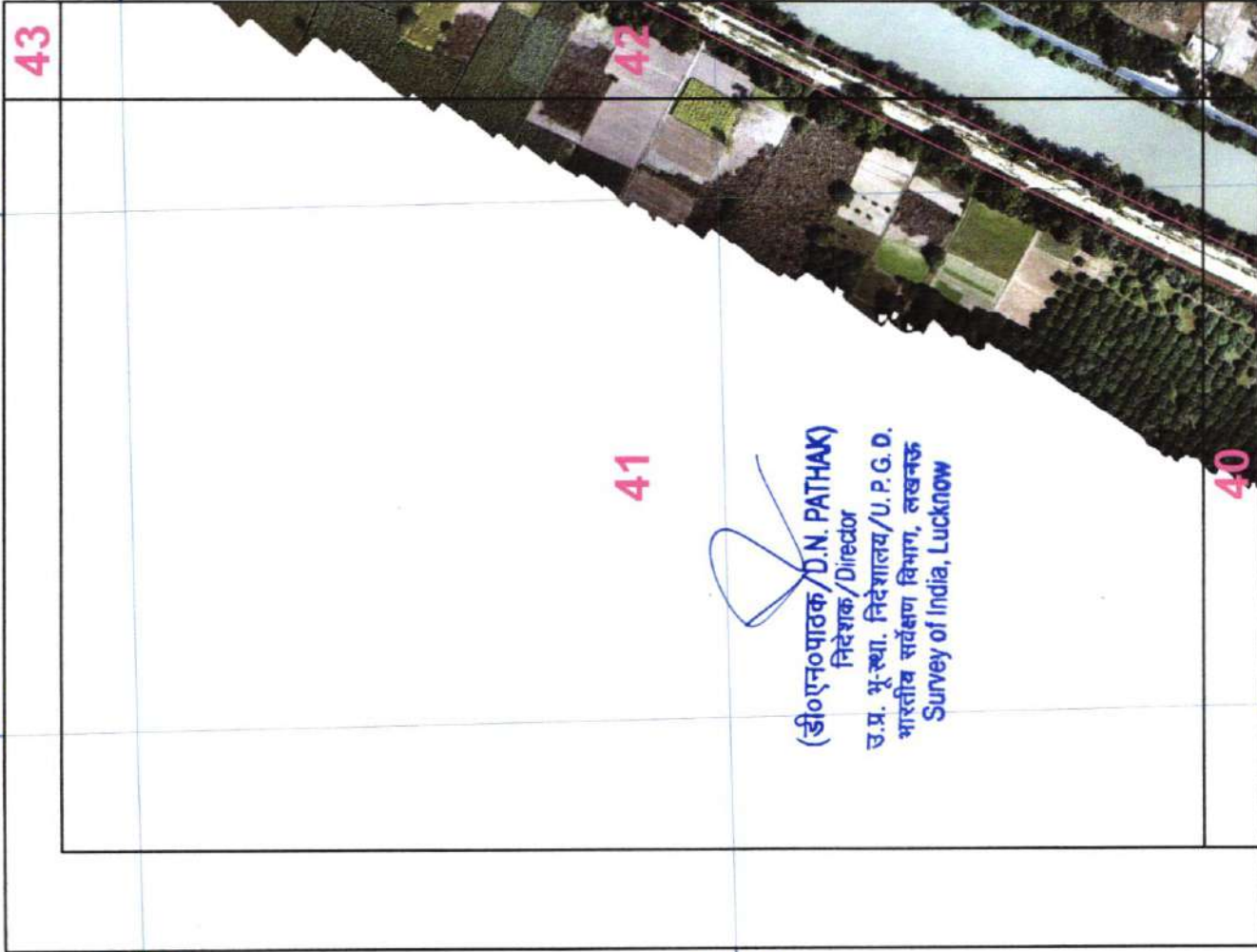
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77°37'30"E

77°37'45"E

77°37'30"E

77°37'45"E



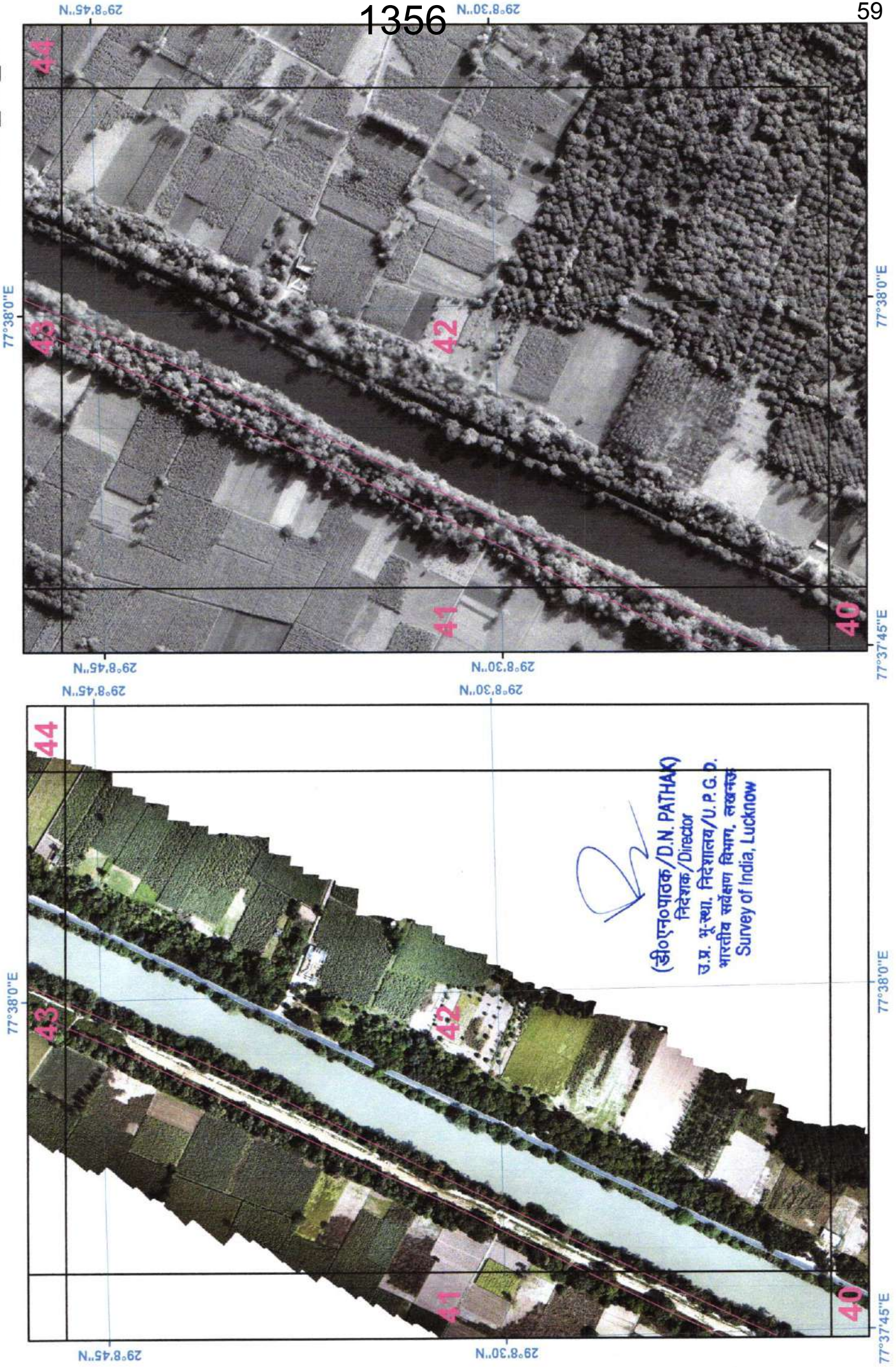
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58

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Satellite Images from NRSC of 2023 AREA_06_08



1356

59

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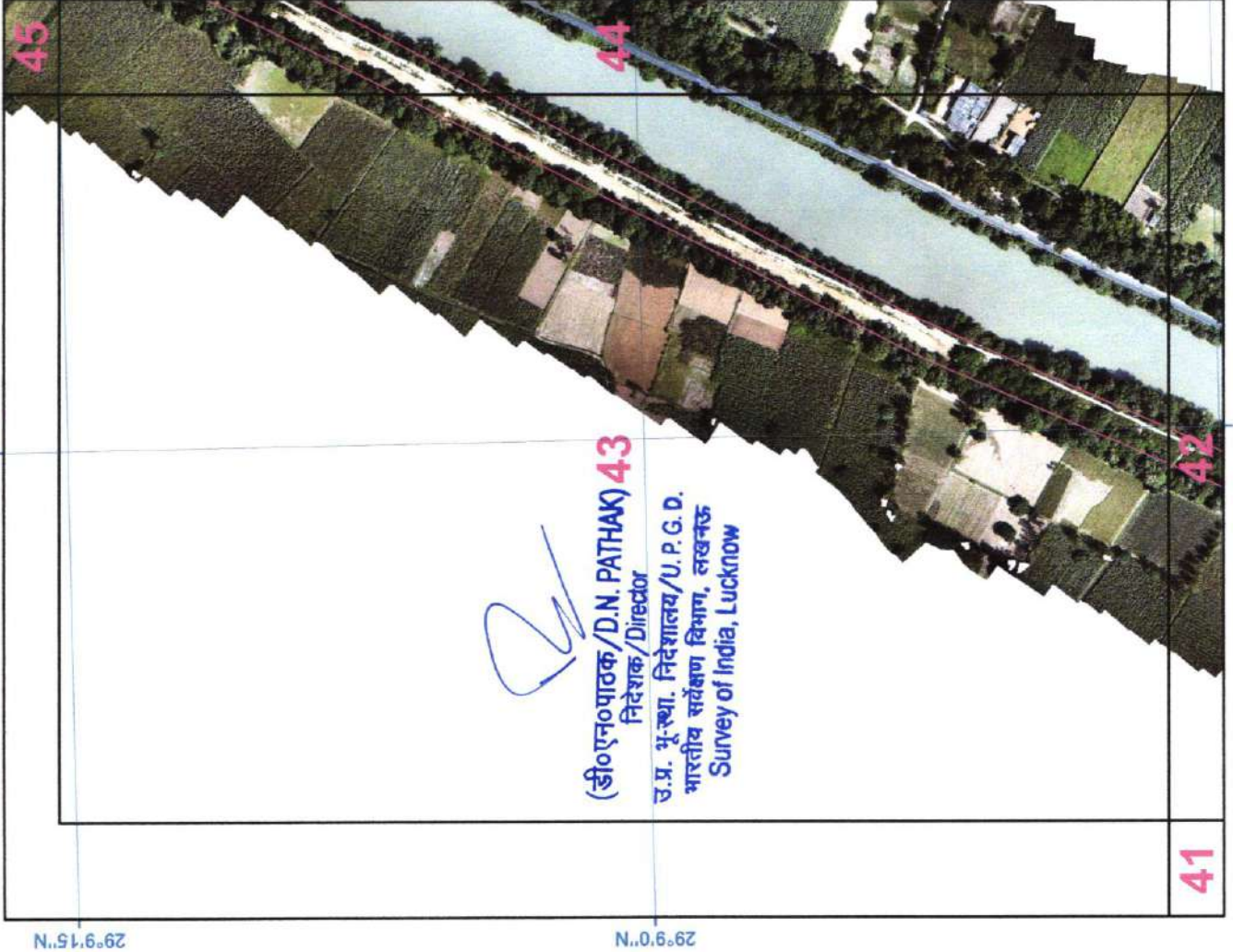
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AREA_06_09

77°38'0"E

77°38'0"E



29°9'15"N

29°9'15"N

29°9'0"N

29°9'0"N

41

42

43

44

29°9'15"N

29°9'15"N

29°9'0"N

29°8'45"N

29°8'45"N

77°38'0"E

77°38'0"E

1357

45

44

43

41

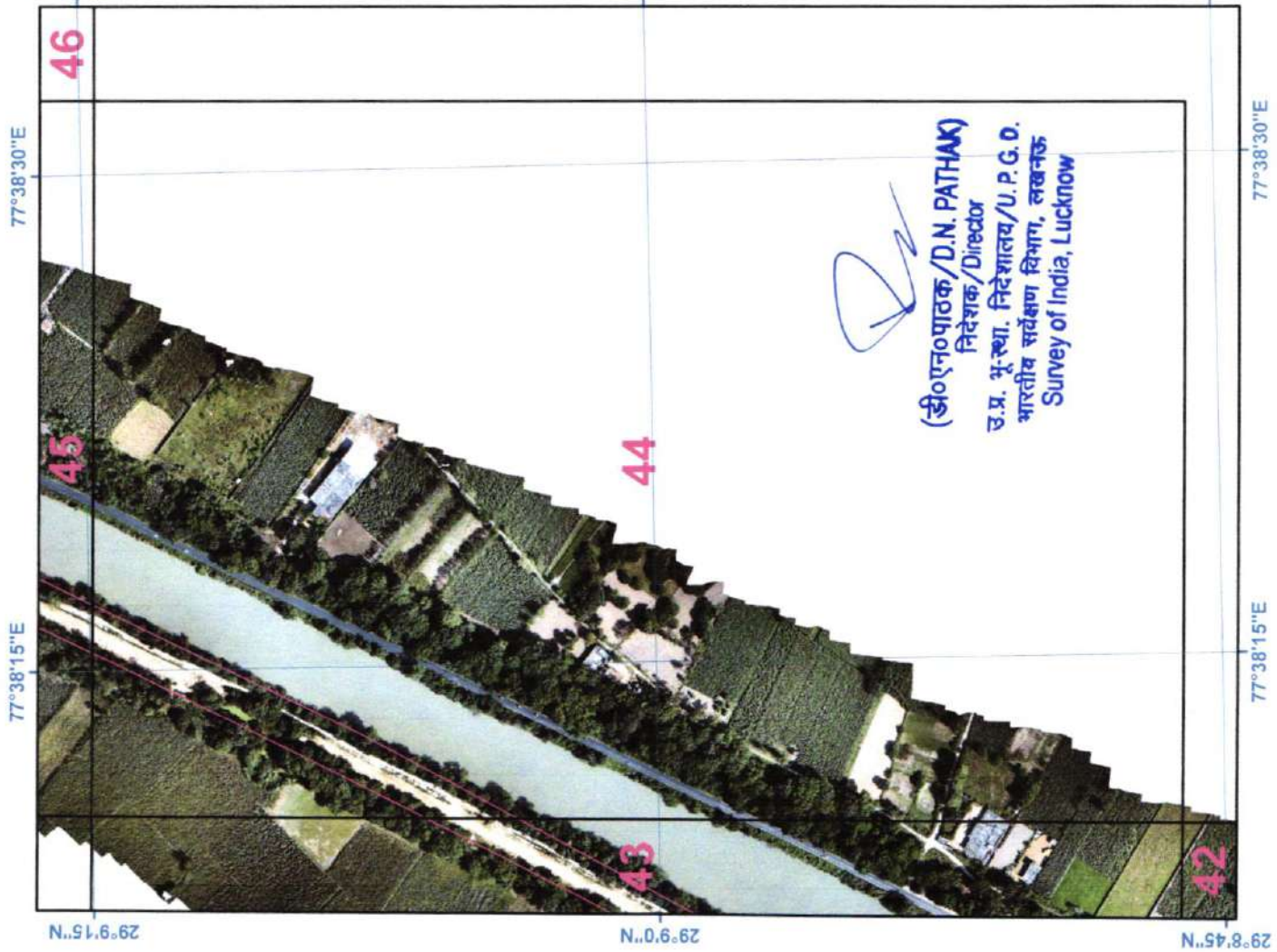
42

60

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29°9'15"N 29°9'0"N 29°8'45"N 77°38'15"E 77°38'30"E 29°9'15"N 29°9'0"N 29°8'45"N

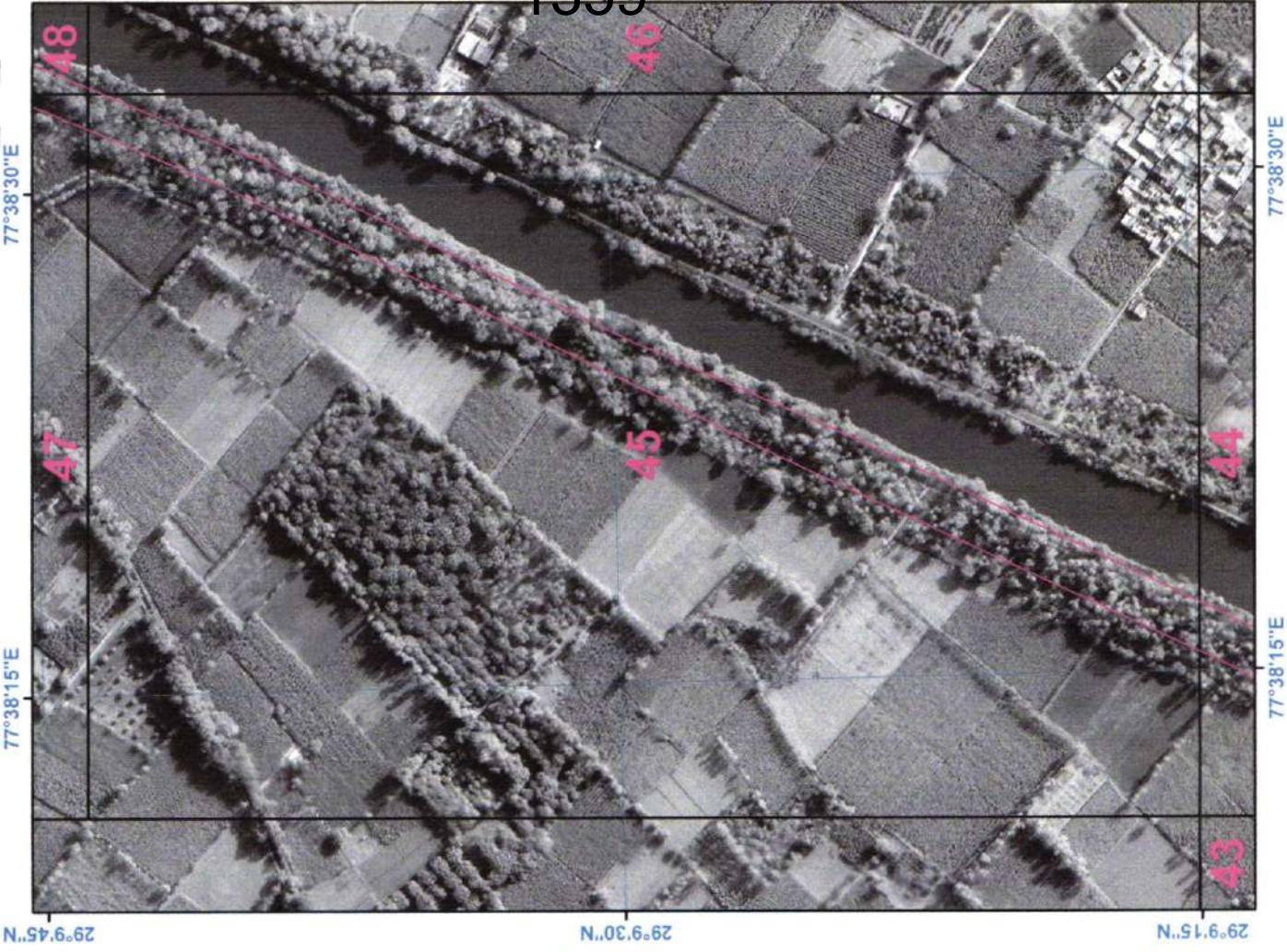
29°9'15"N 29°9'0"N 29°8'45"N 77°38'15"E 77°38'30"E 29°9'15"N 29°9'0"N 29°8'45"N

29°9'15"N 29°9'0"N 29°8'45"N 77°38'15"E 77°38'30"E 29°9'15"N 29°9'0"N 29°8'45"N

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Satellite Images from NRSC of 2023 AREA 06_11



1359

N. 29.9.15. 62

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77°38'45"E



77°38'45"E

29°9'45"N

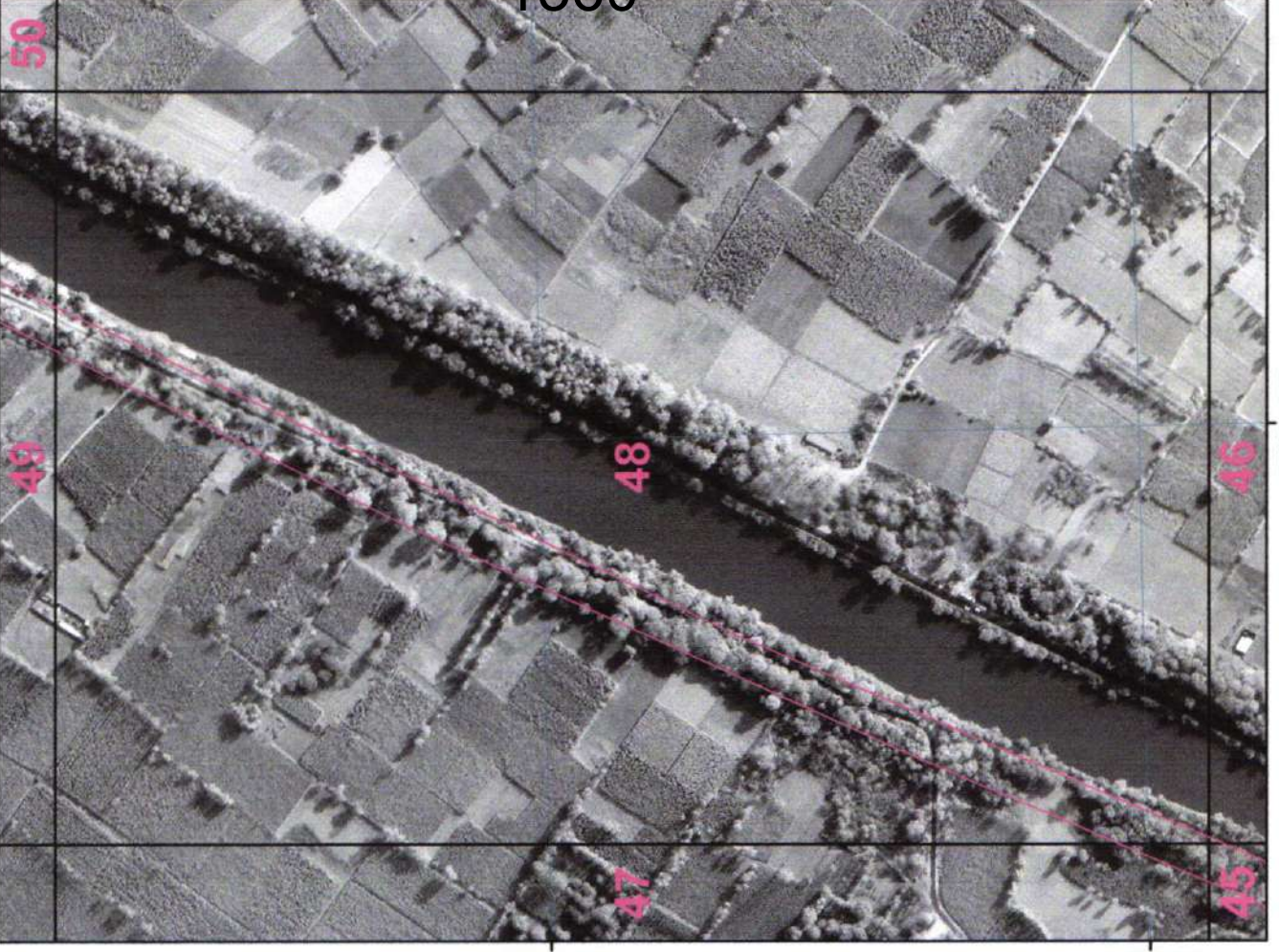
29°10'0"N

29°9'45"N

29°9'45"N

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77°38'45"E



77°38'45"E

1360

29°9'45"N

63

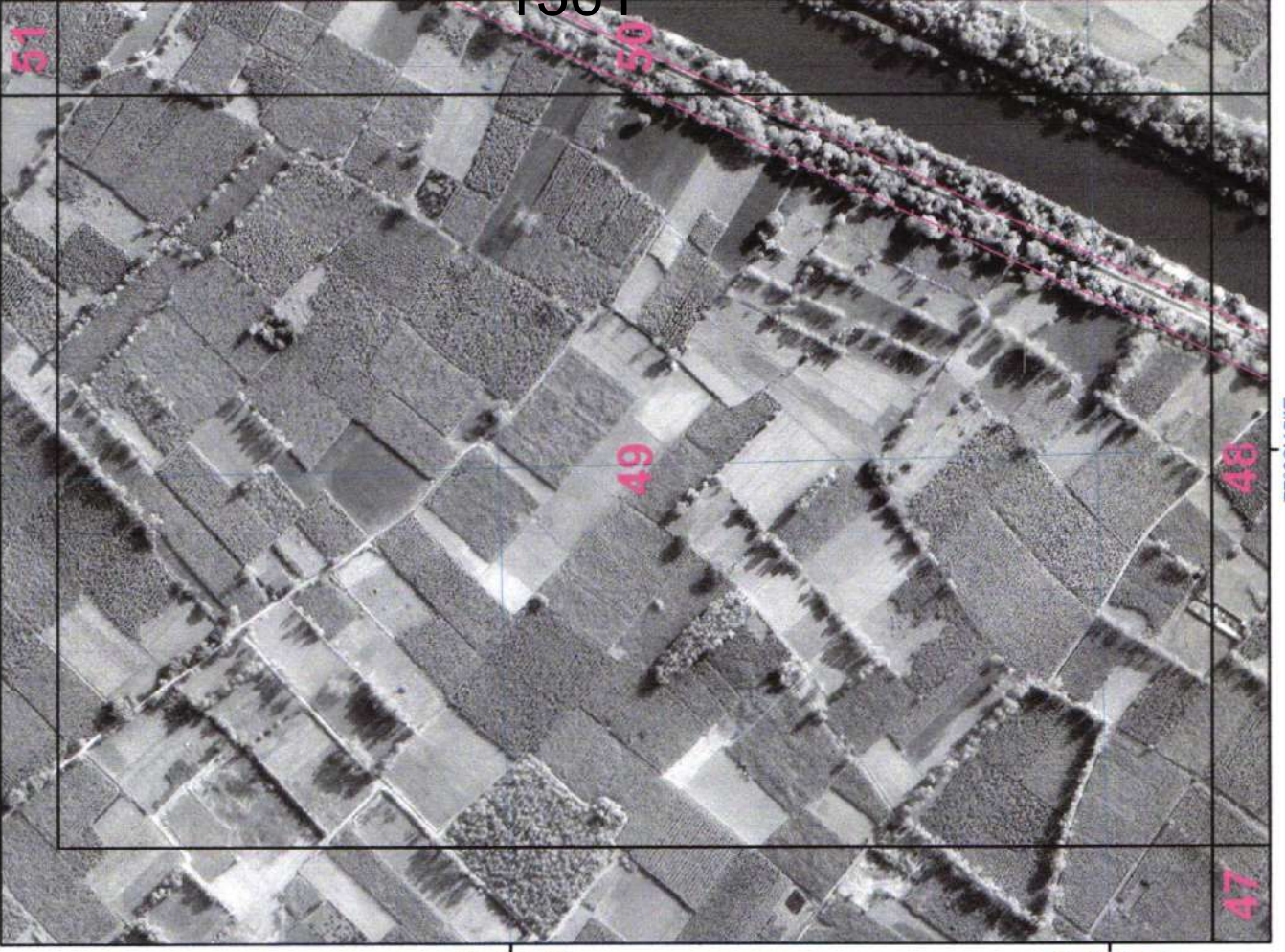
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Satellite Images from NRSC of 2023 AREA_06_13

77°38'45"E

77°38'45"E



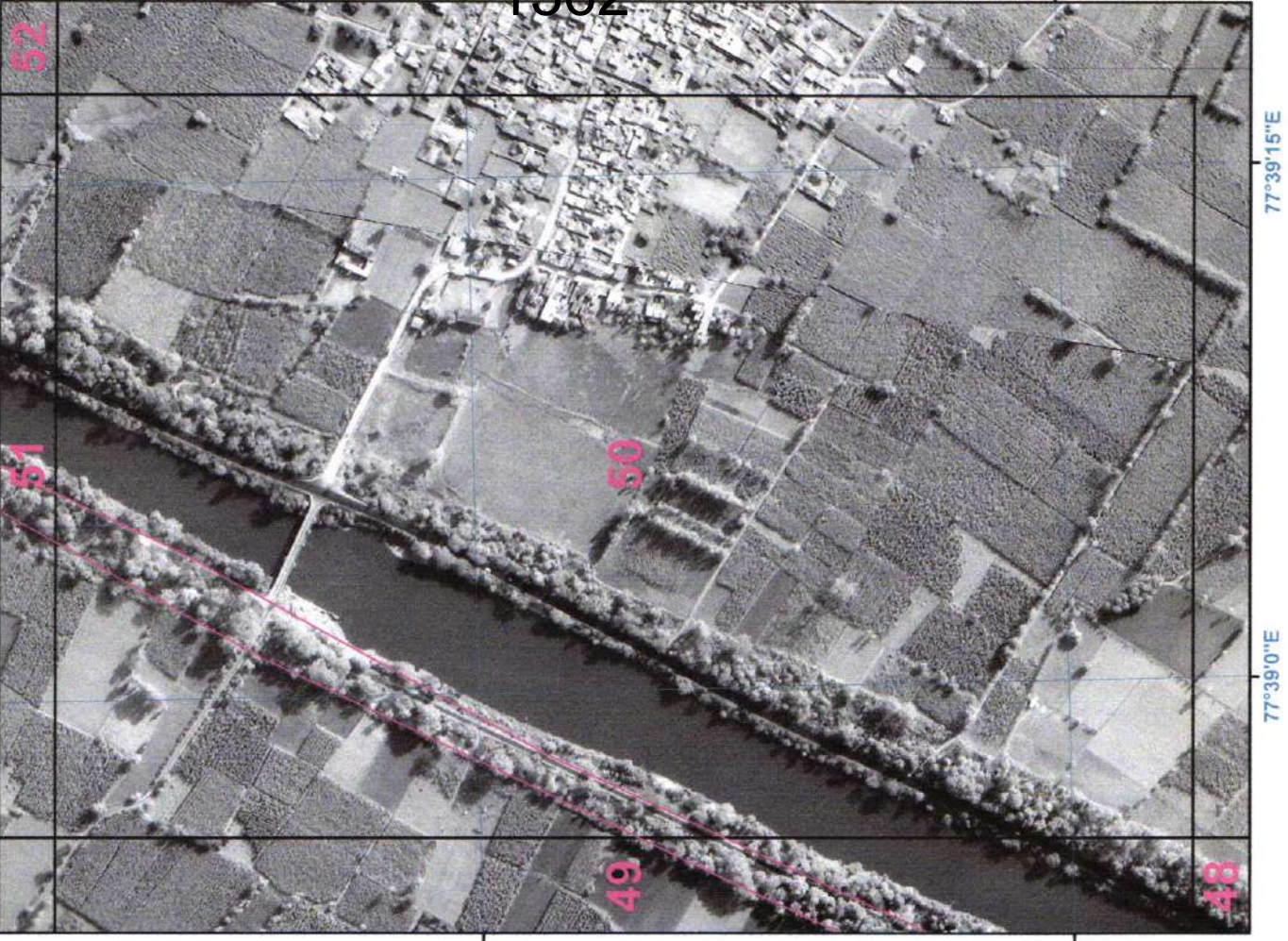
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64

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Satellite Images from NRSC of 2023
AREA 06_14



1362

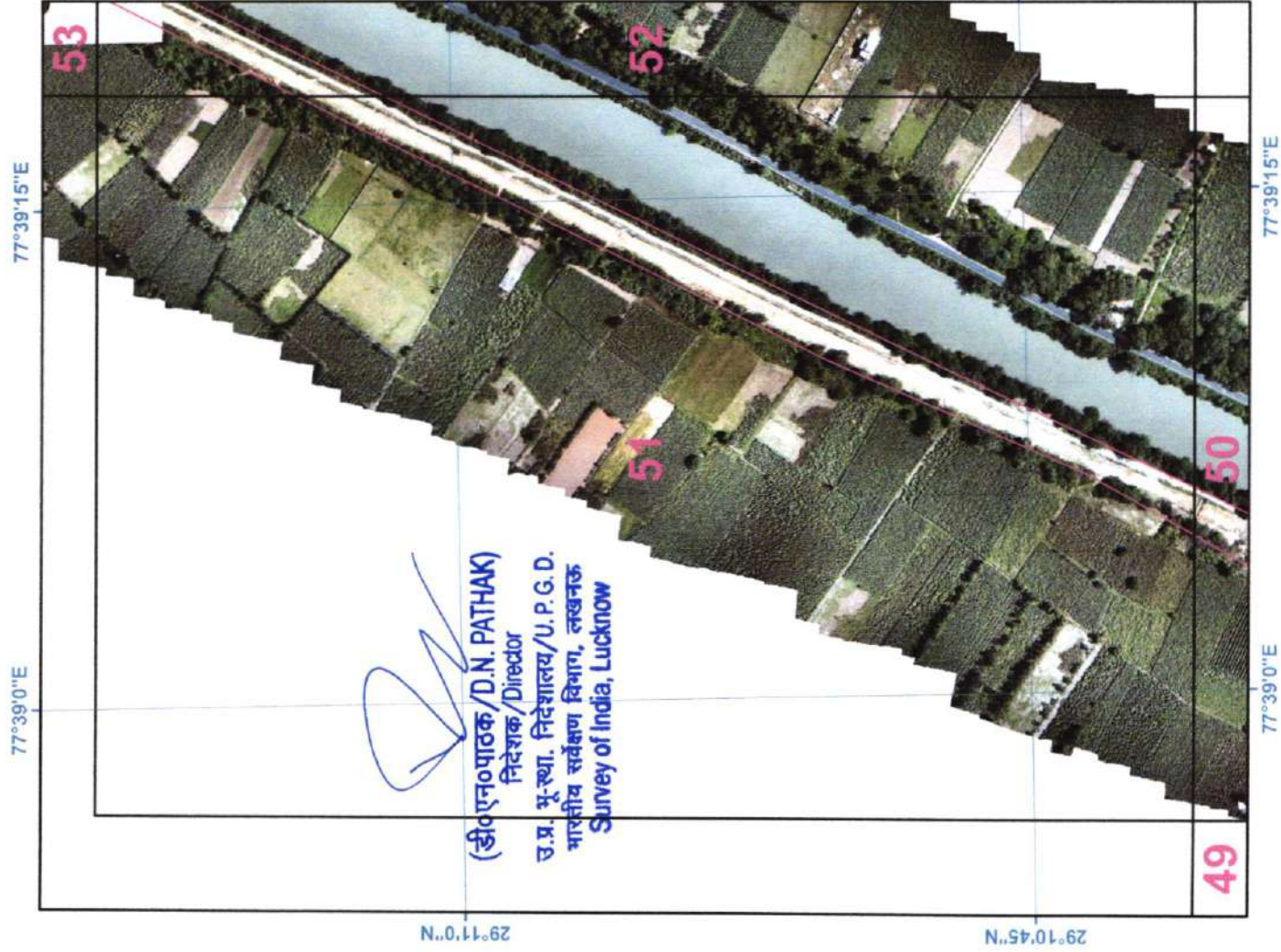
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Satellite Images from NRSC of 2023

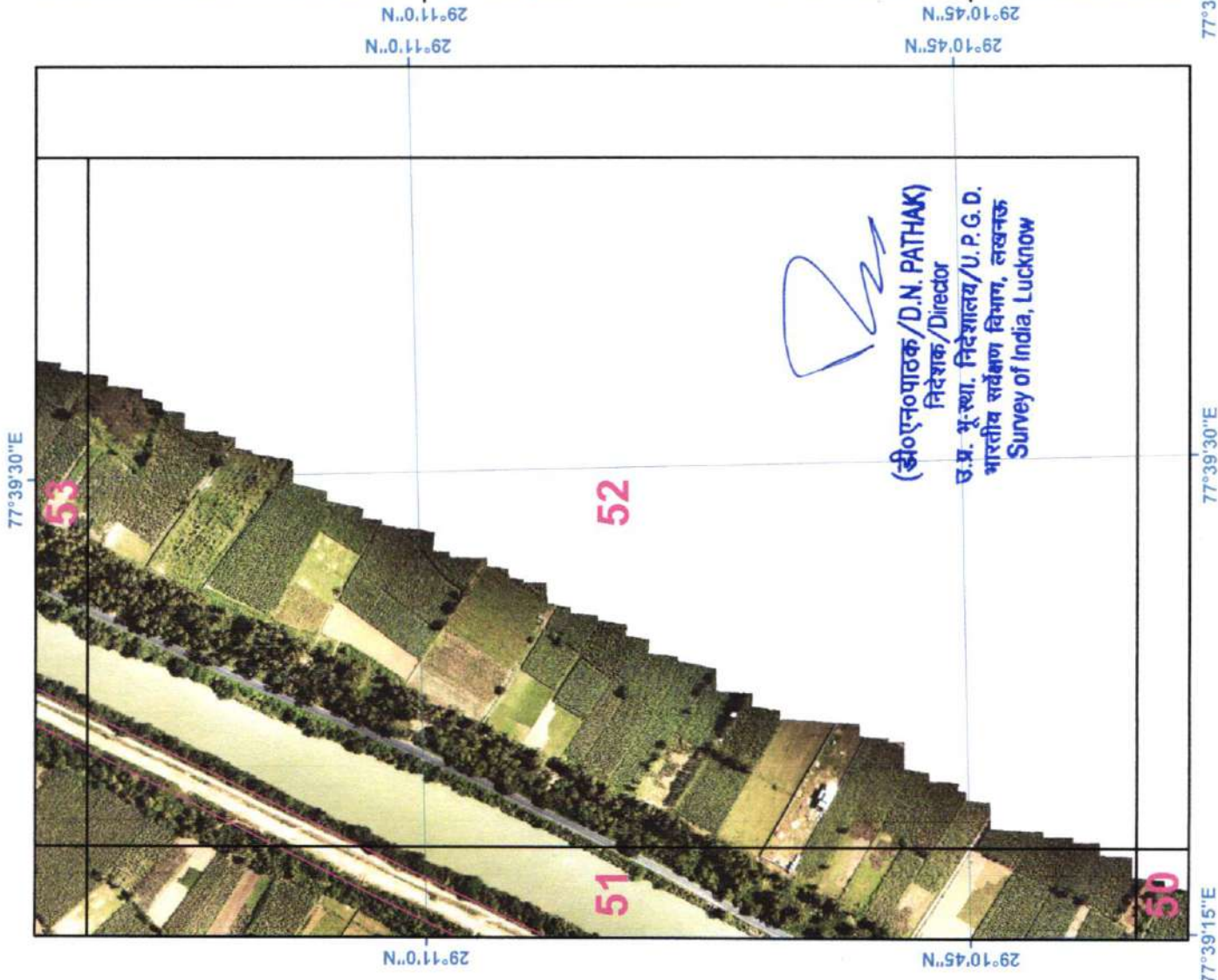
AREA_06_15



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Satellite Images from NRSC of 2023 AREA_06_16



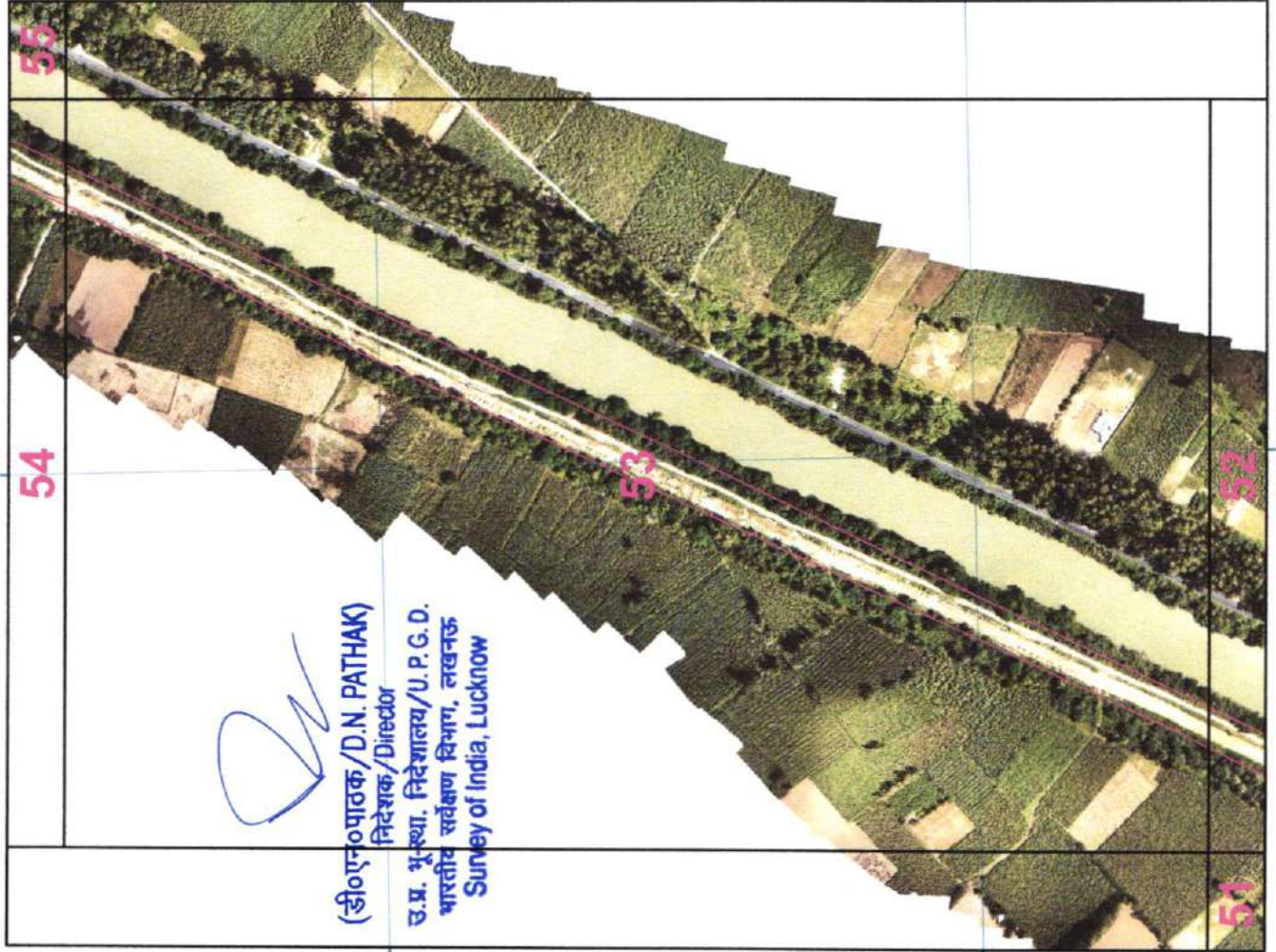
SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA_06_17

77°39'30"E

77°39'30"E



54

55

53

52

51

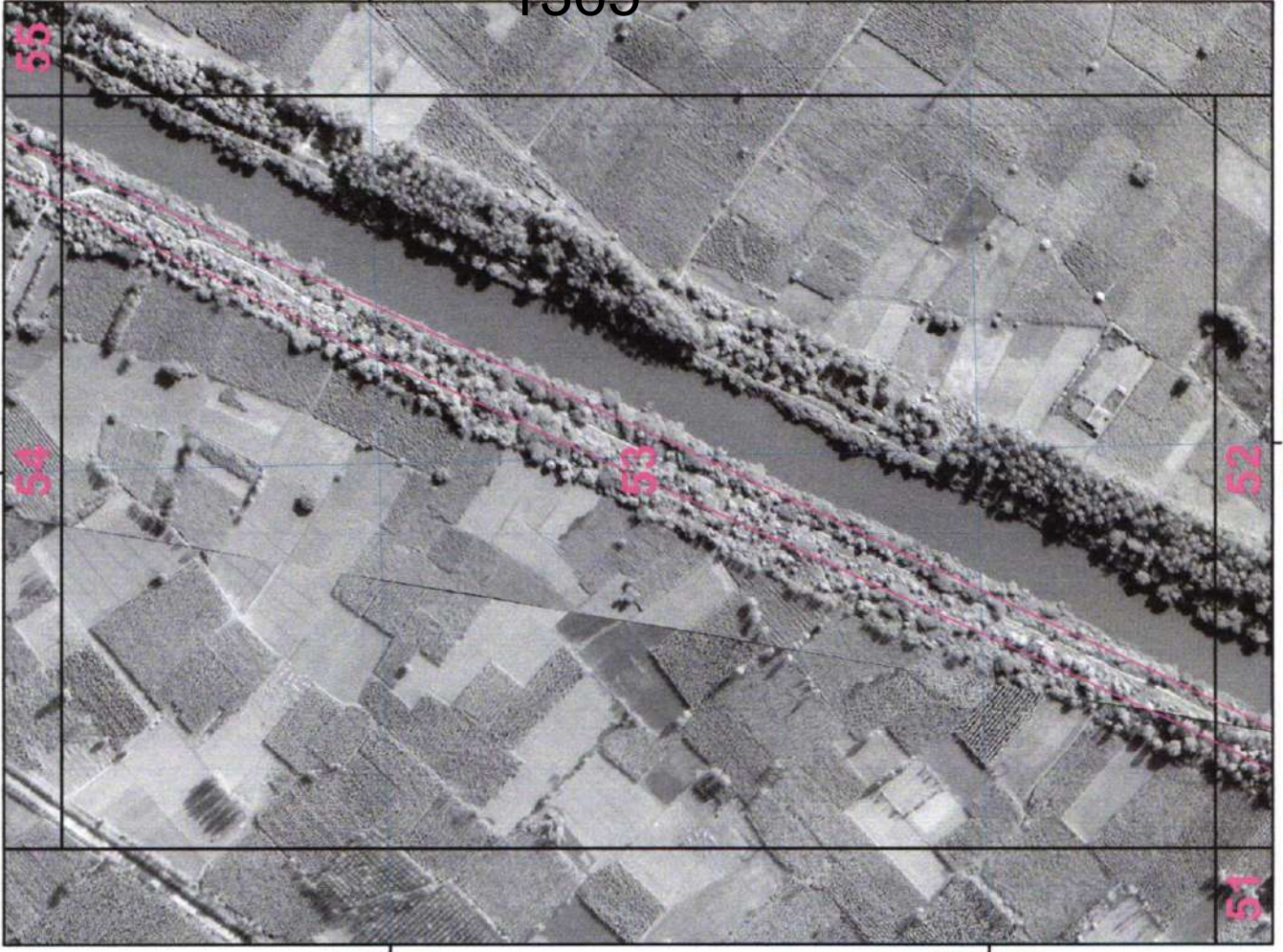
77°39'30"E

29°11'30"N

29°11'15"N

29°11'30"N

29°11'15"N



54

55

53

52

51

77°39'30"E

29°11'30"N

29°11'15"N

1365

68

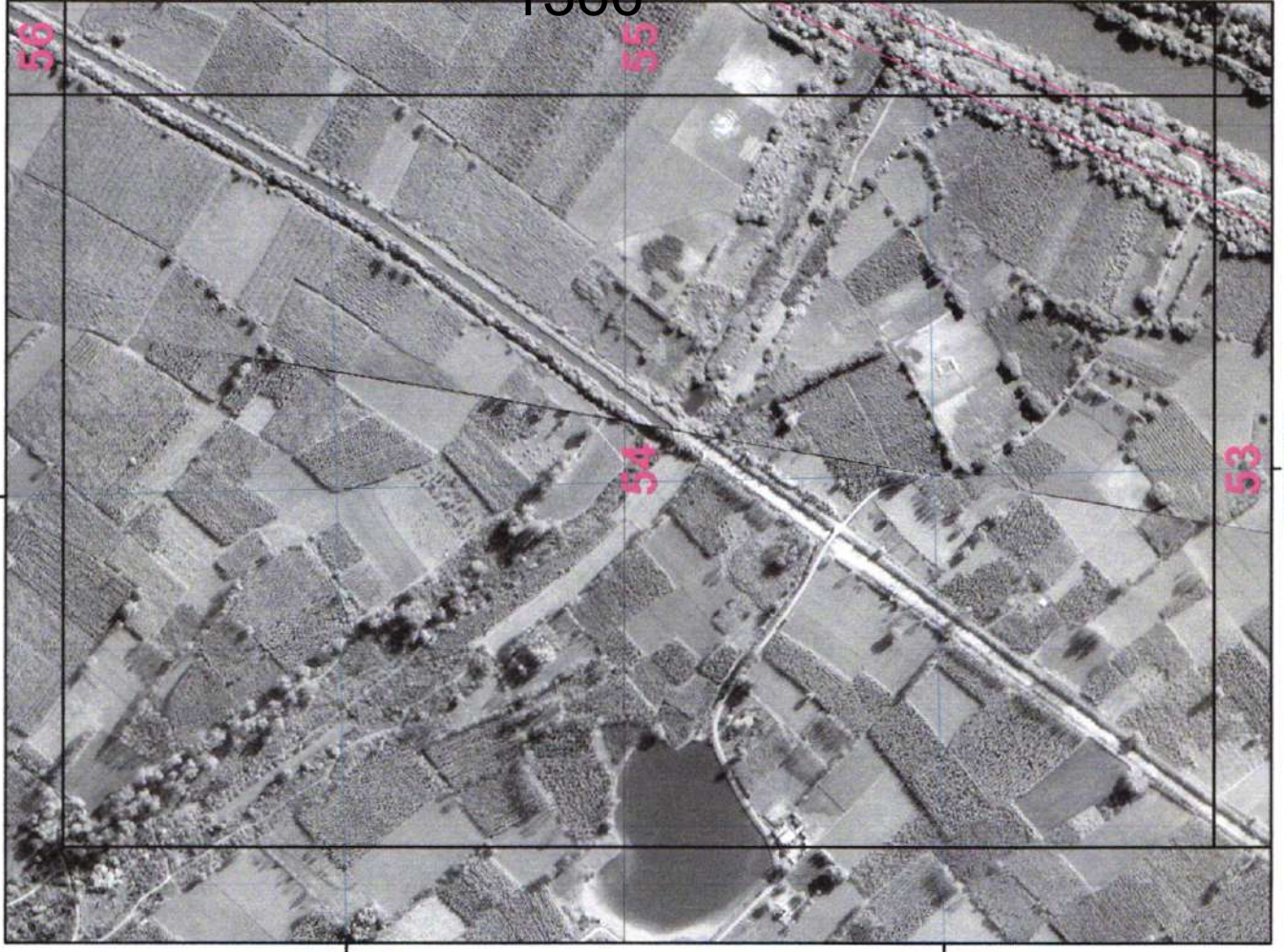
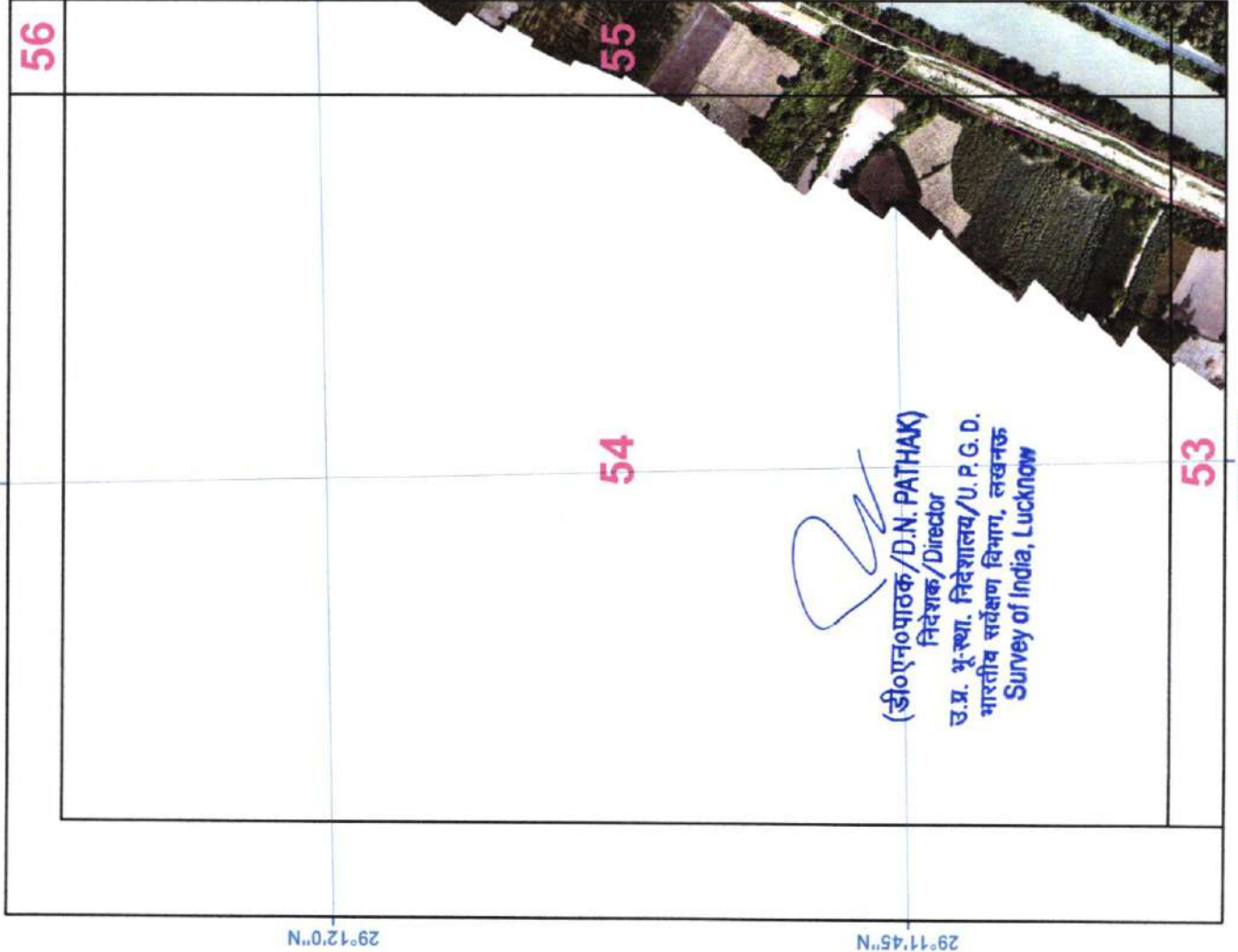
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Satellite Images from NRSC of 2023 AREA_06_18

77°39'30"E

77°39'30"E



1366

77°39'30"E

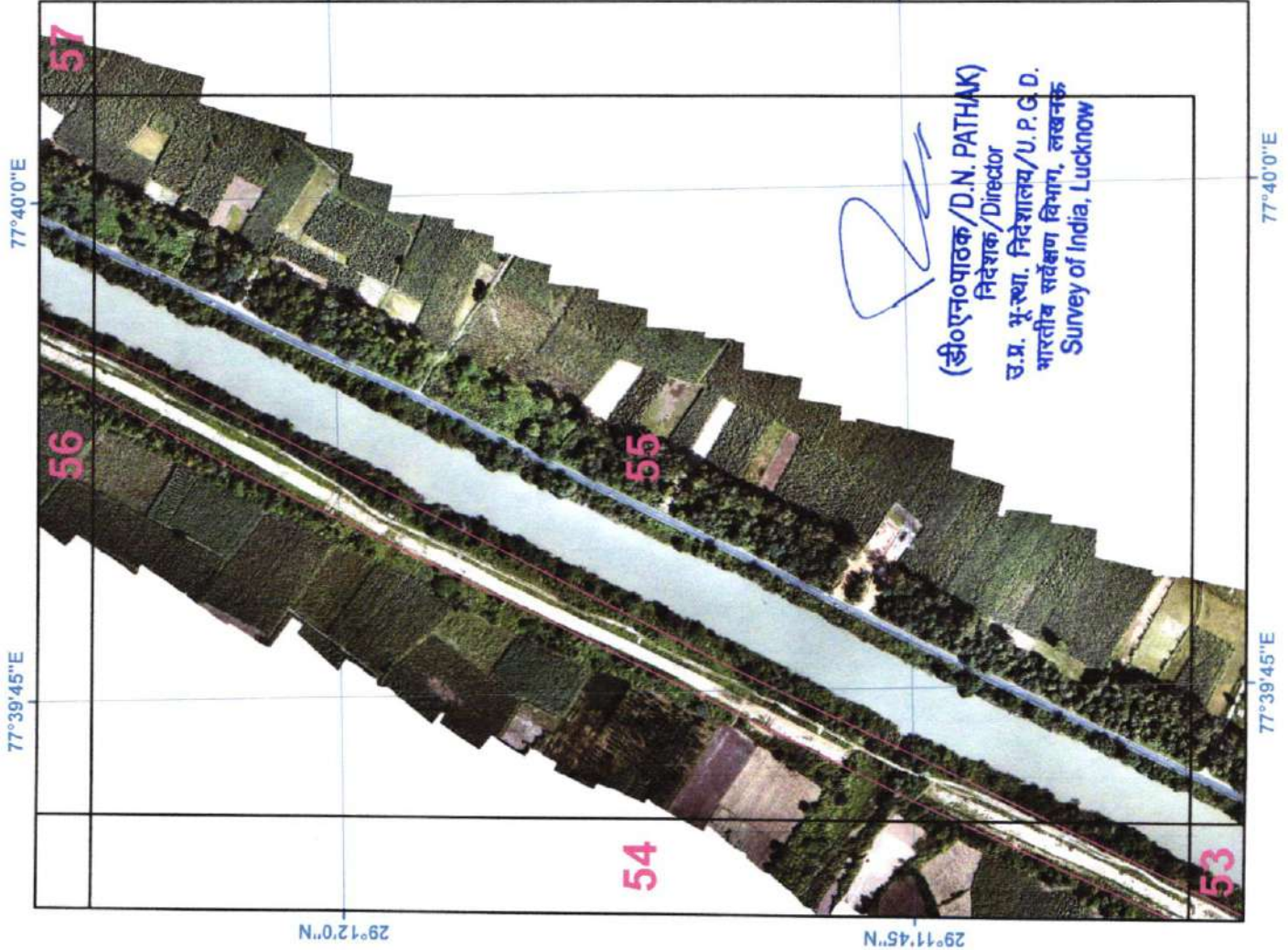
77°39'30"E

69

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Satellite Images from NRSC of 2023 AREA_06_19



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Drone Images Oct 2024

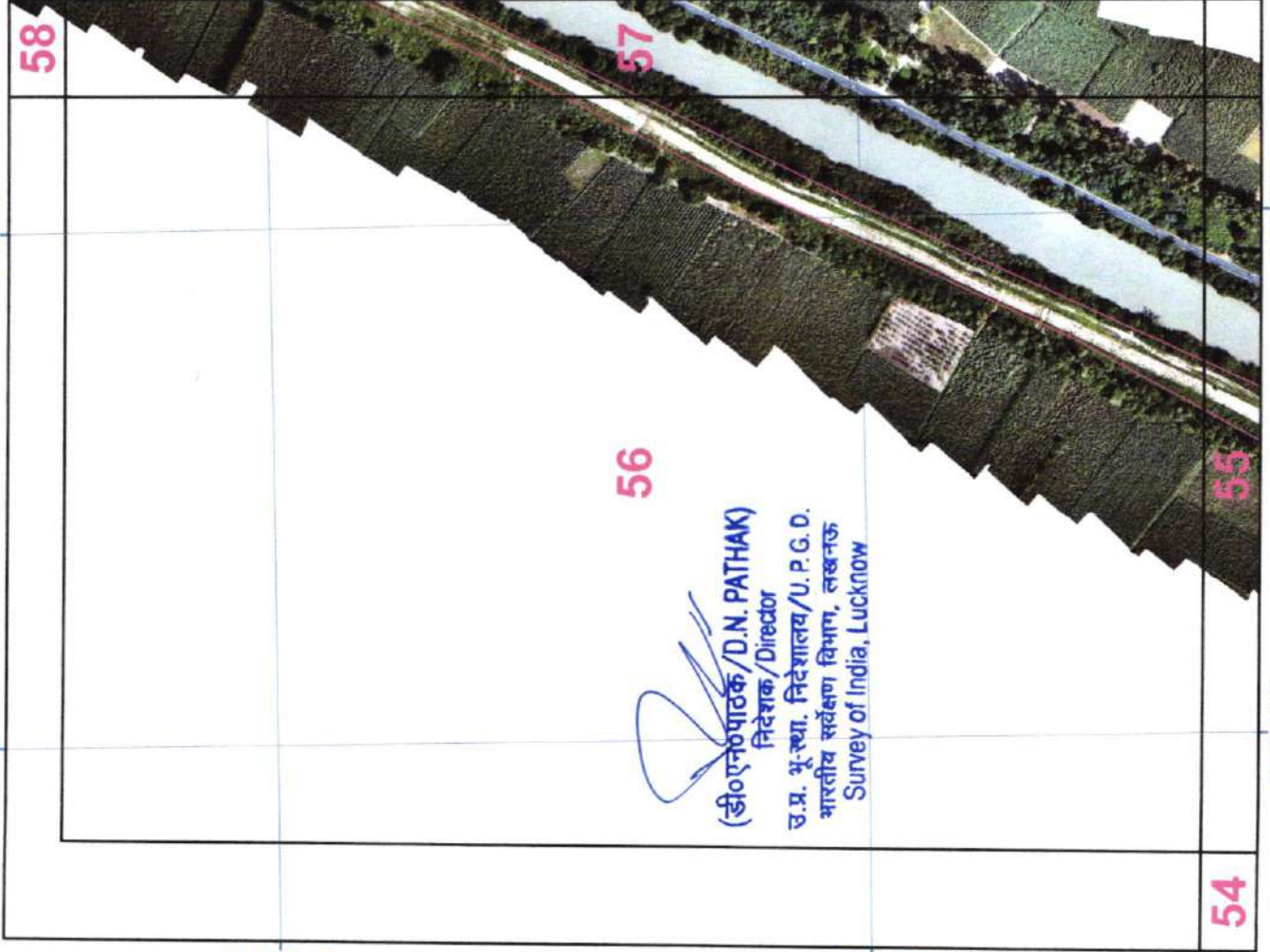
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77°39'45"E

77°40'0"E

77°39'45"E

77°40'0"E



29°12'30"N

29°12'30"N

29°12'30"N

29°12'15"N

29°12'15"N

29°12'15"N

77°39'45"E

77°40'0"E

77°39'45"E

77°40'0"E

1368

71

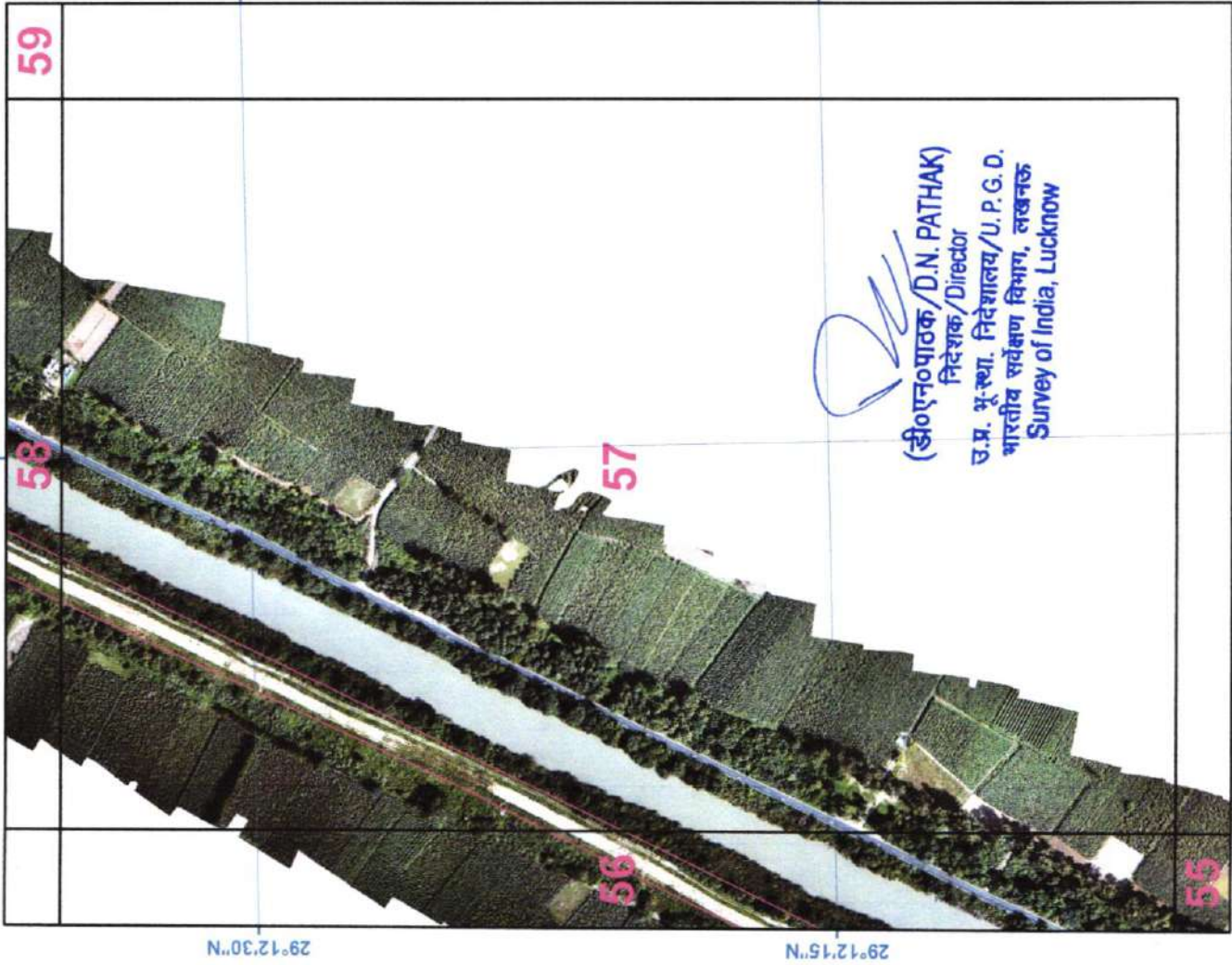
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AREA_06_21

77°40'15"E




29°12'30"N

29°12'15"N

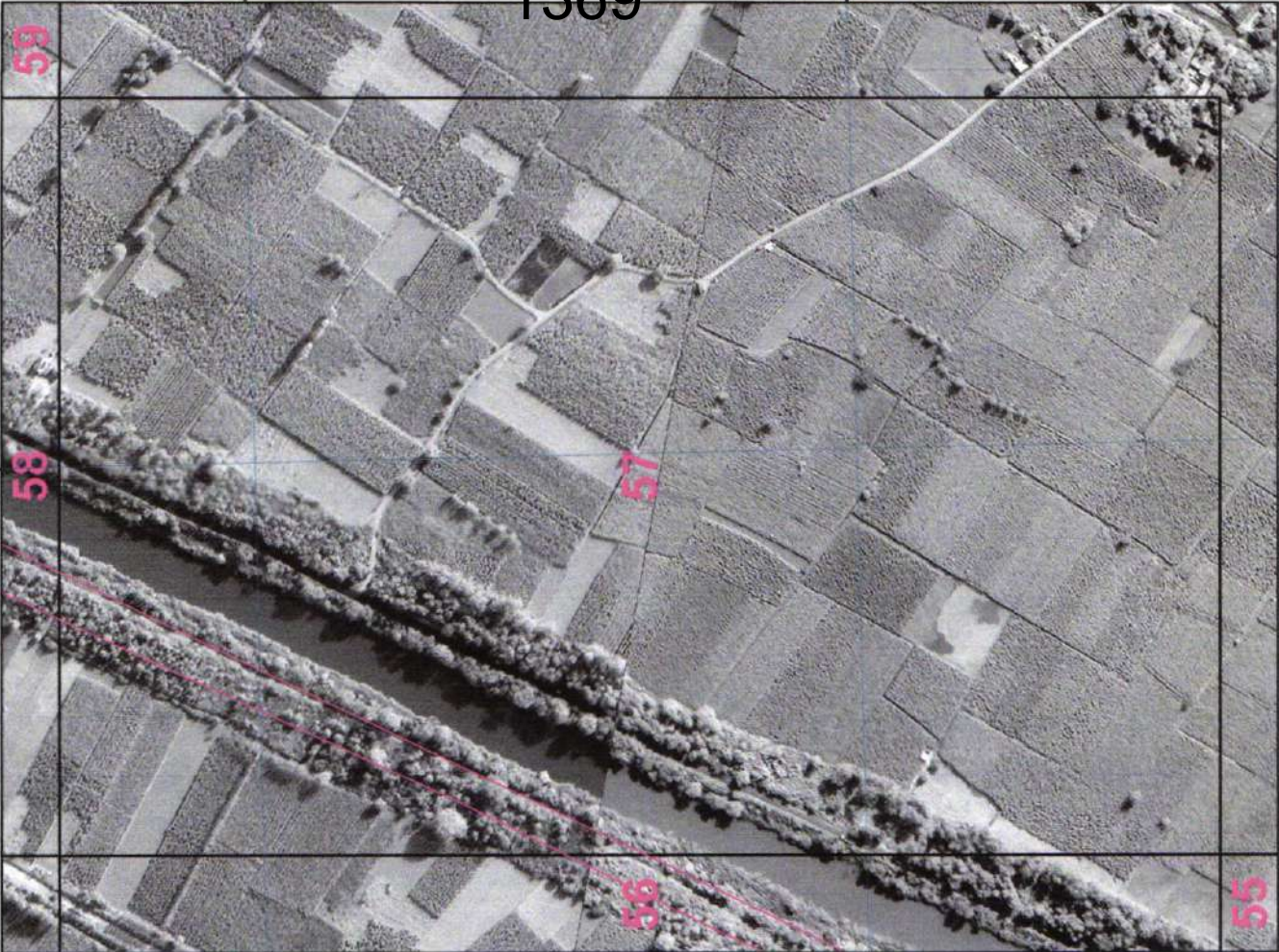
29°12'30"N

29°12'15"N

77°40'15"E


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77°40'15"E



29°12'30"N

29°12'15"N

72

77°40'15"E

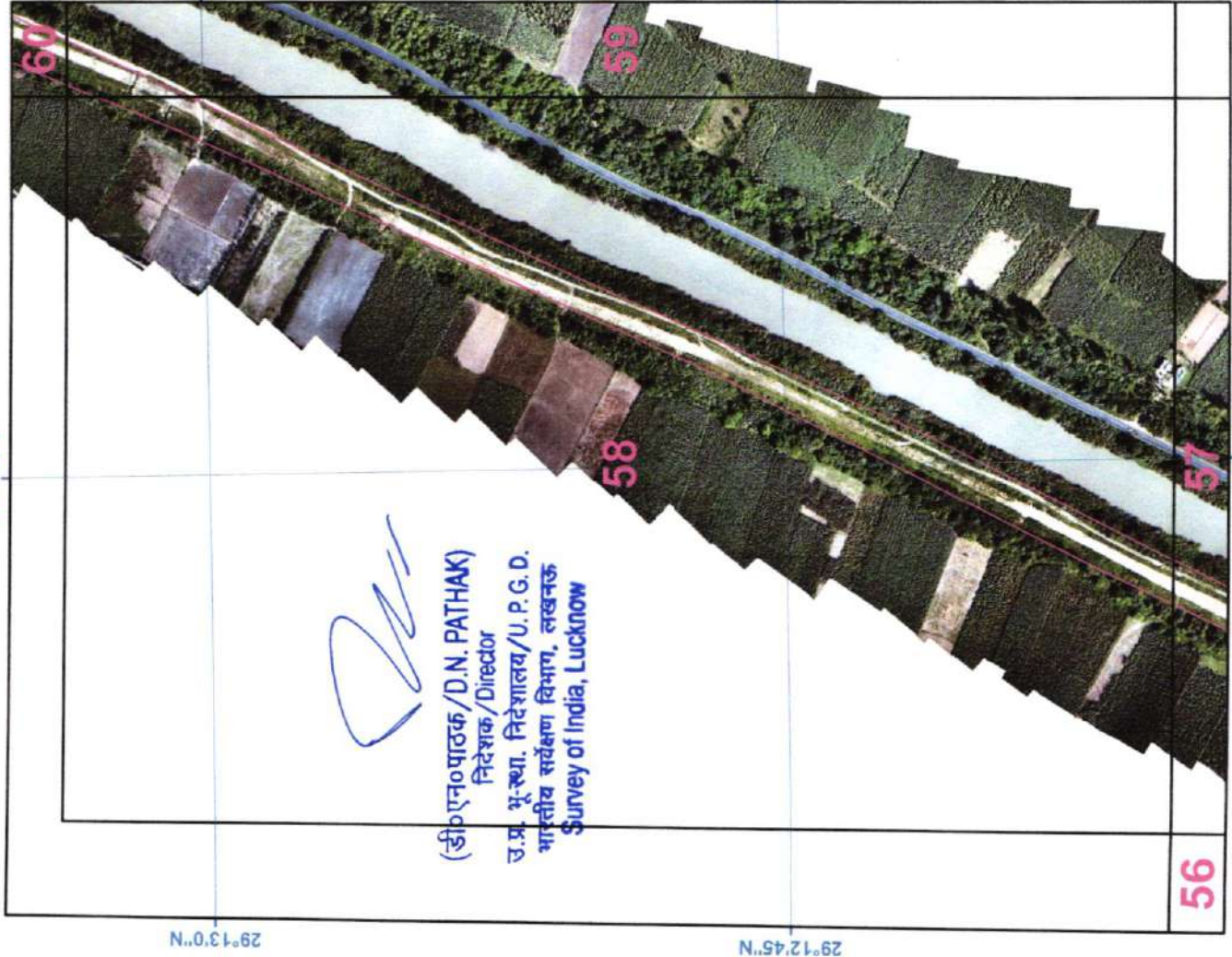
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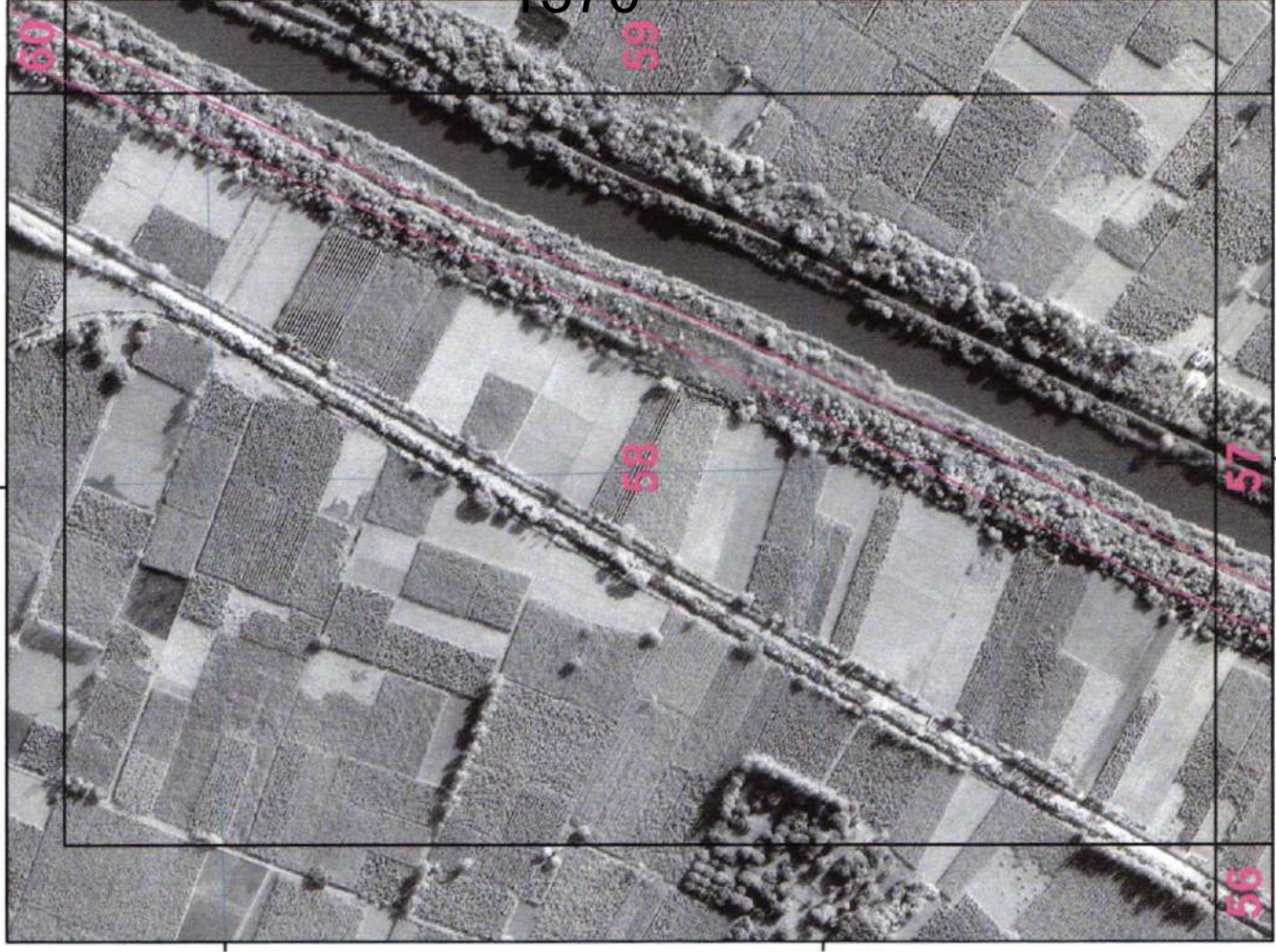
Satellite Images from NRSC of 2023 AREA_06_22

77°40'15"E



77°40'15"E

77°40'15"E



77°40'15"E

1370

29°13'0"N

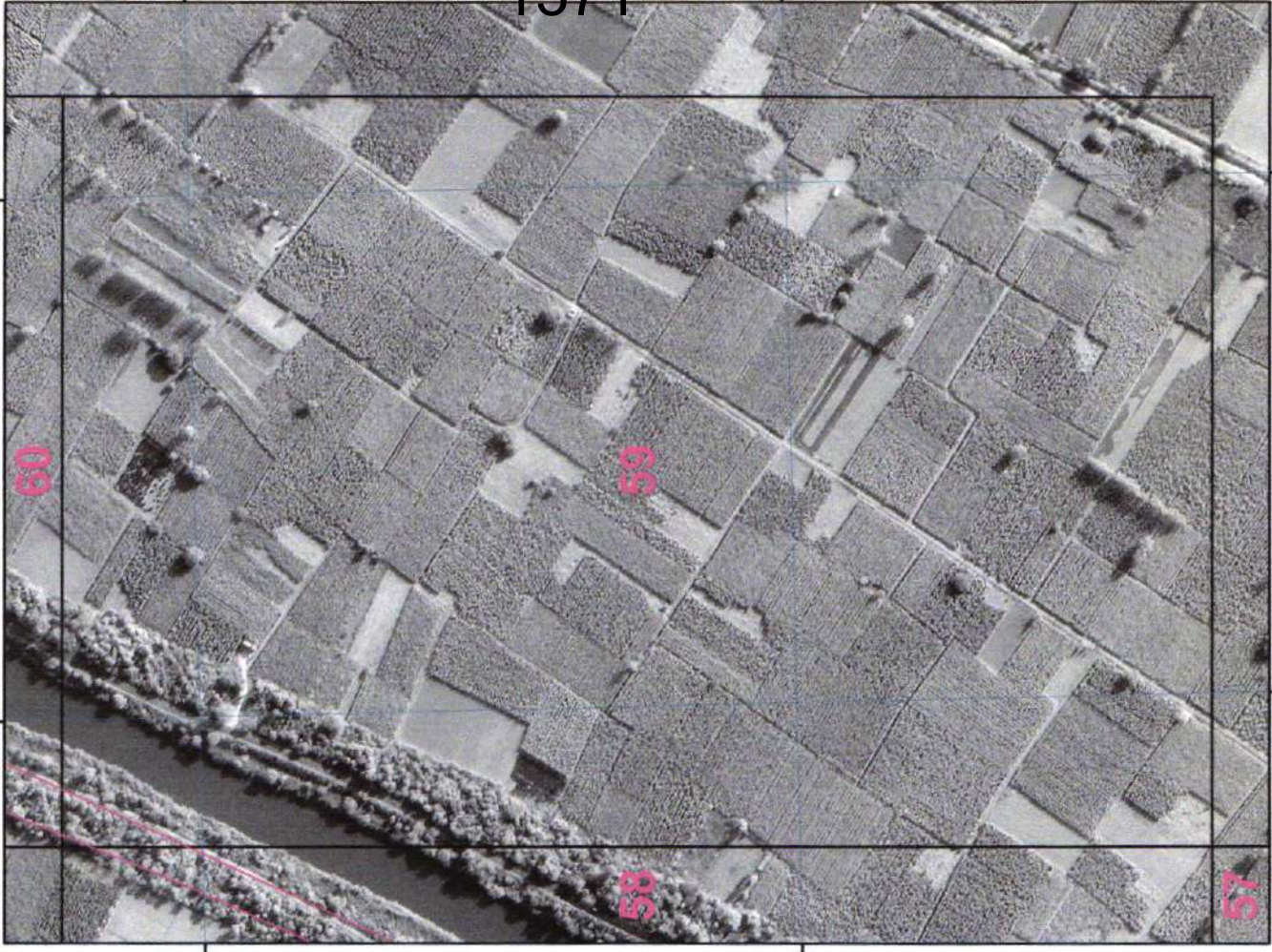
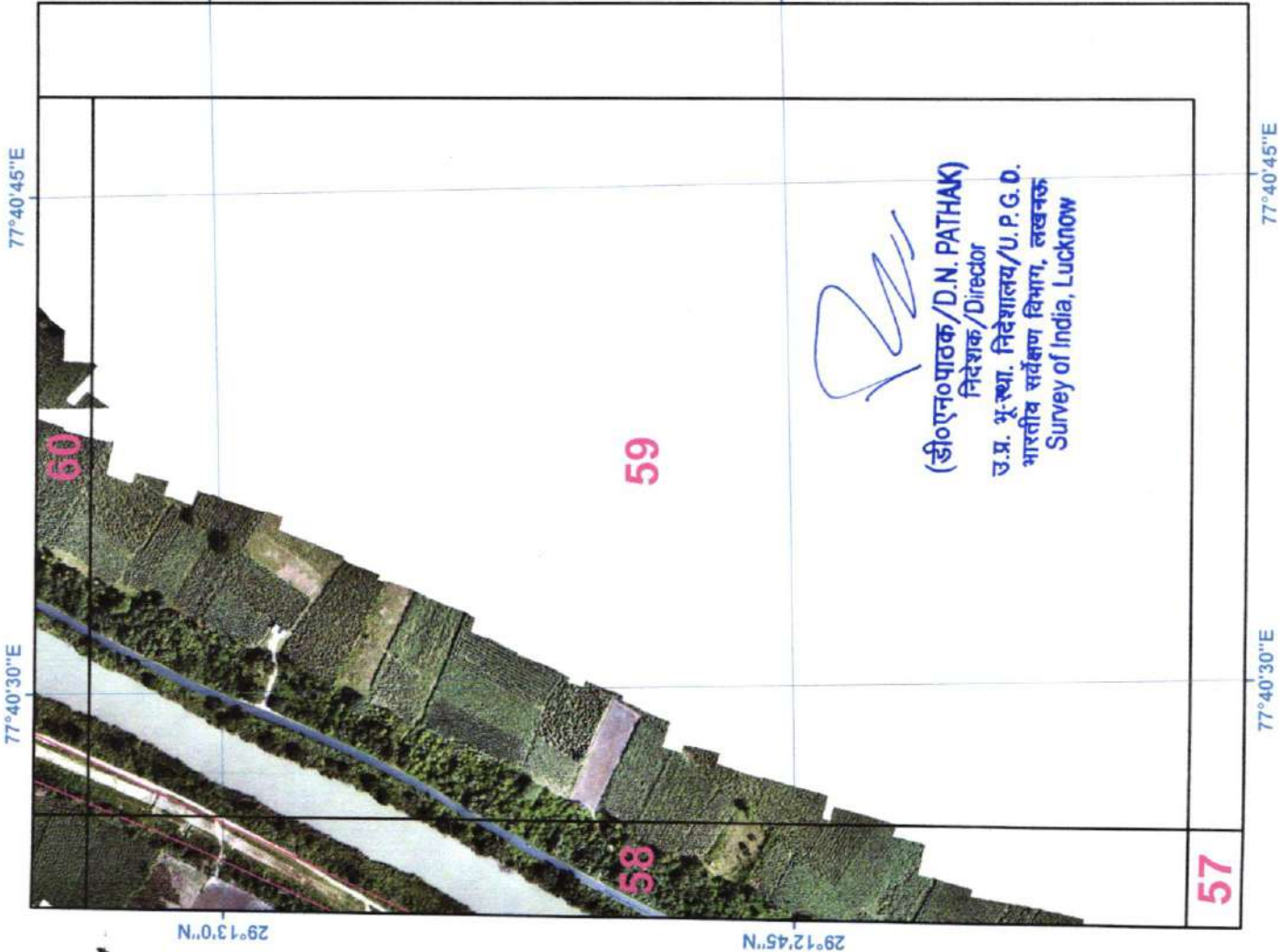
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73

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Satellite Images from NRSC of 2023 AREA_06_23

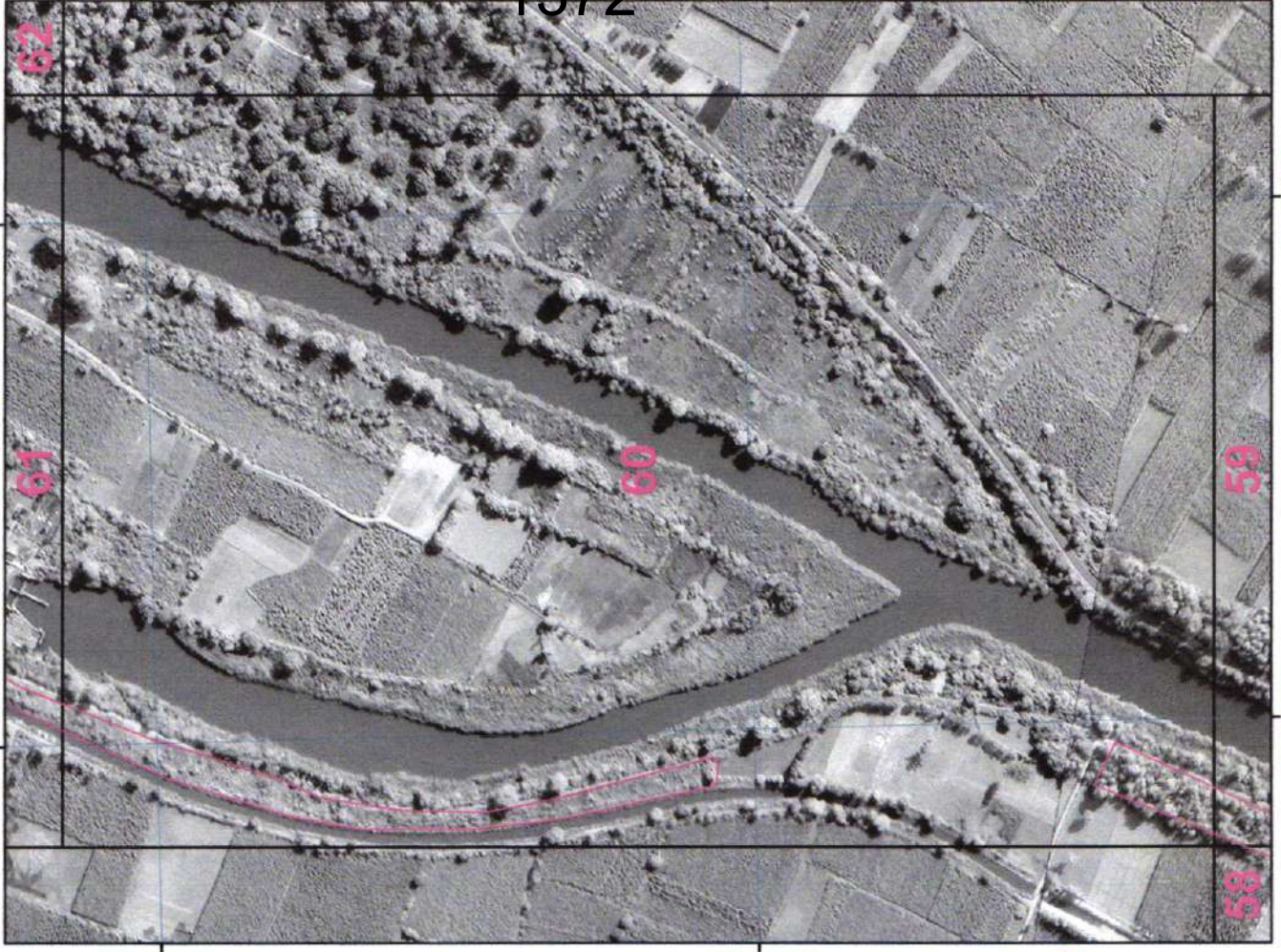


1371

SURVEY OF INDIA

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1372

77°40'30"E 77°40'45"E

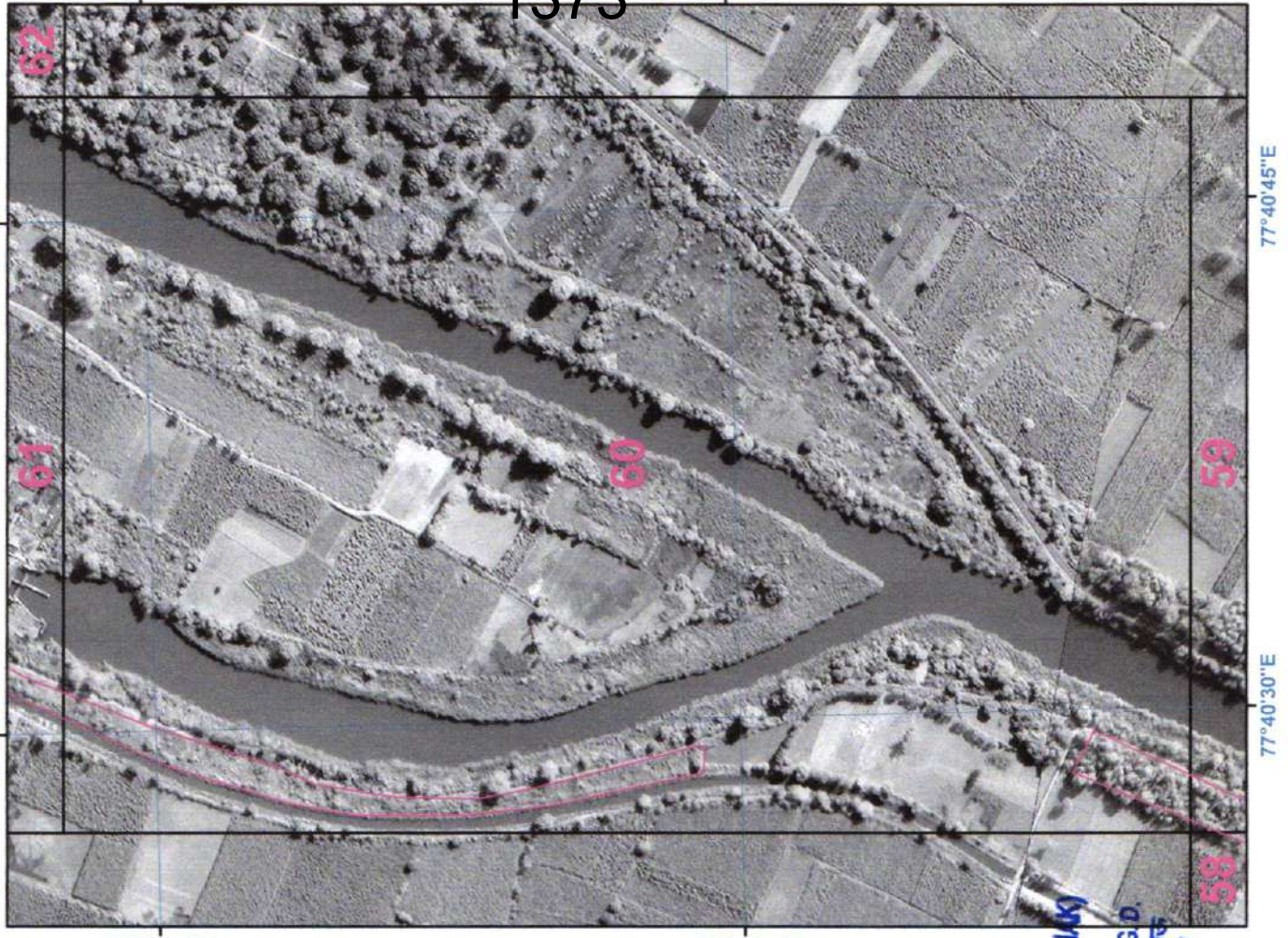
29°13'30"N 29°13'15"N

75

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Satellite Images from NRSC of 2023 AREA_07_01



1373

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_07_02

77°40'30"E

77°40'45"E

77°40'30"E

77°40'45"E

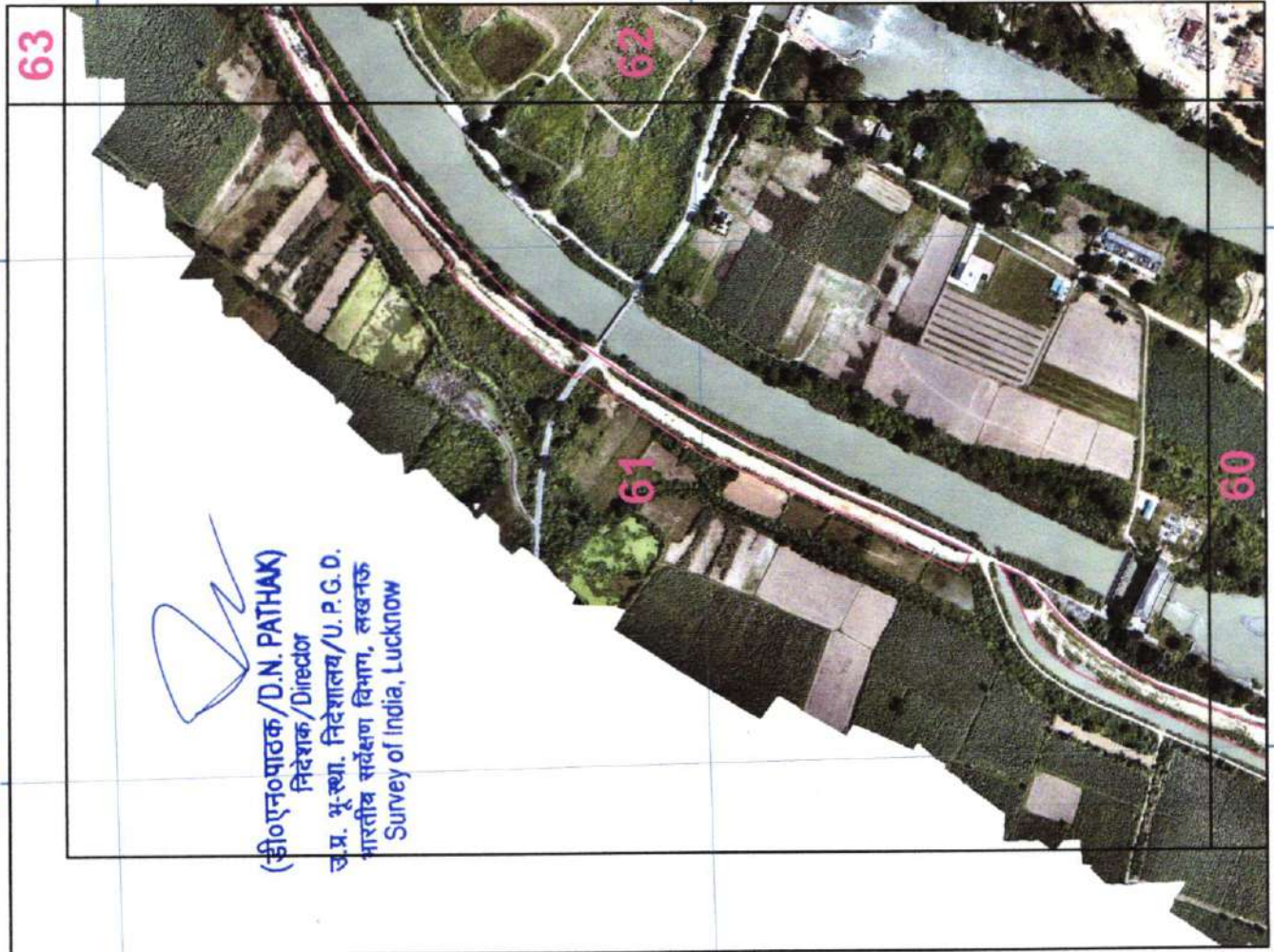
29°13'45"N

29°13'45"N

29°14'0"N

29°13'45"N

29°14'0"N



77°40'30"E

77°40'45"E

77°40'30"E

77°40'45"E

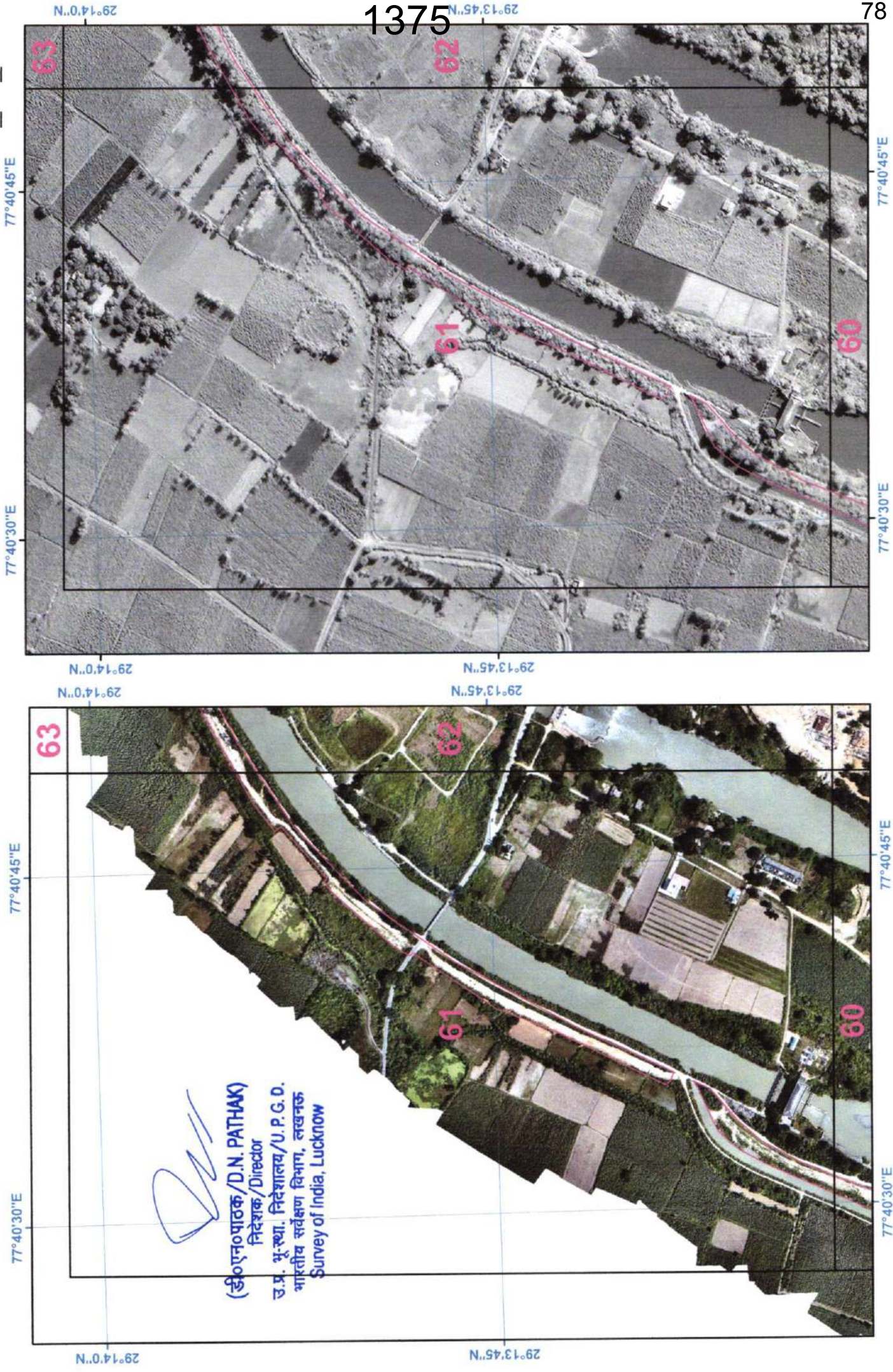
1374

77

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1375

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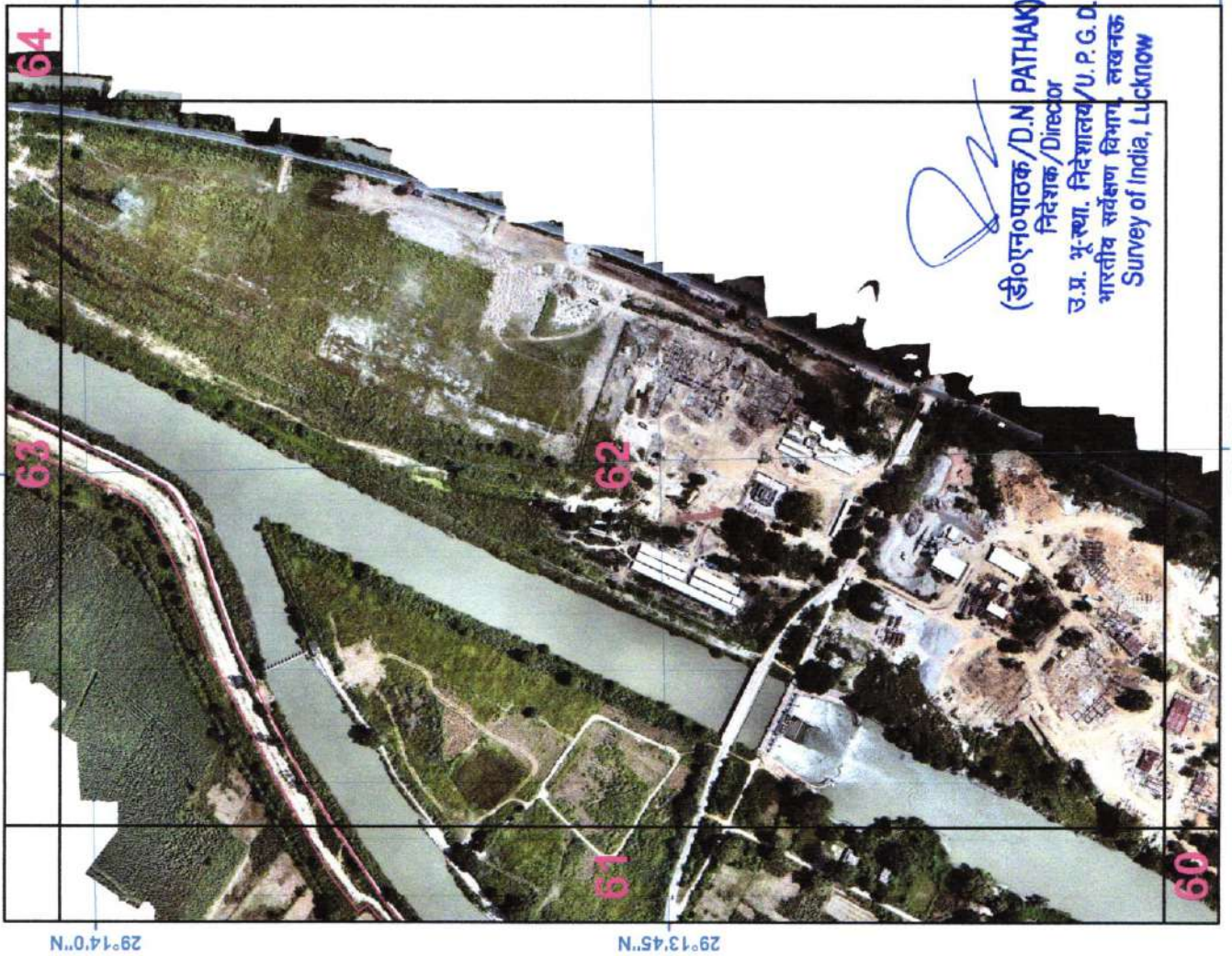
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Satellite Images from NRSC of 2023

AREA_08_02

77°41'0"E

77°41'0"E



29°13'45"N

29°13'45"N

29°14'0"N

29°13'45"N

29°14'0"N

64

63

62

61

60

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77°41'0"E

29°13'30"N

77°41'0"E

64

63

62

61

60

1376

29°14'0"N

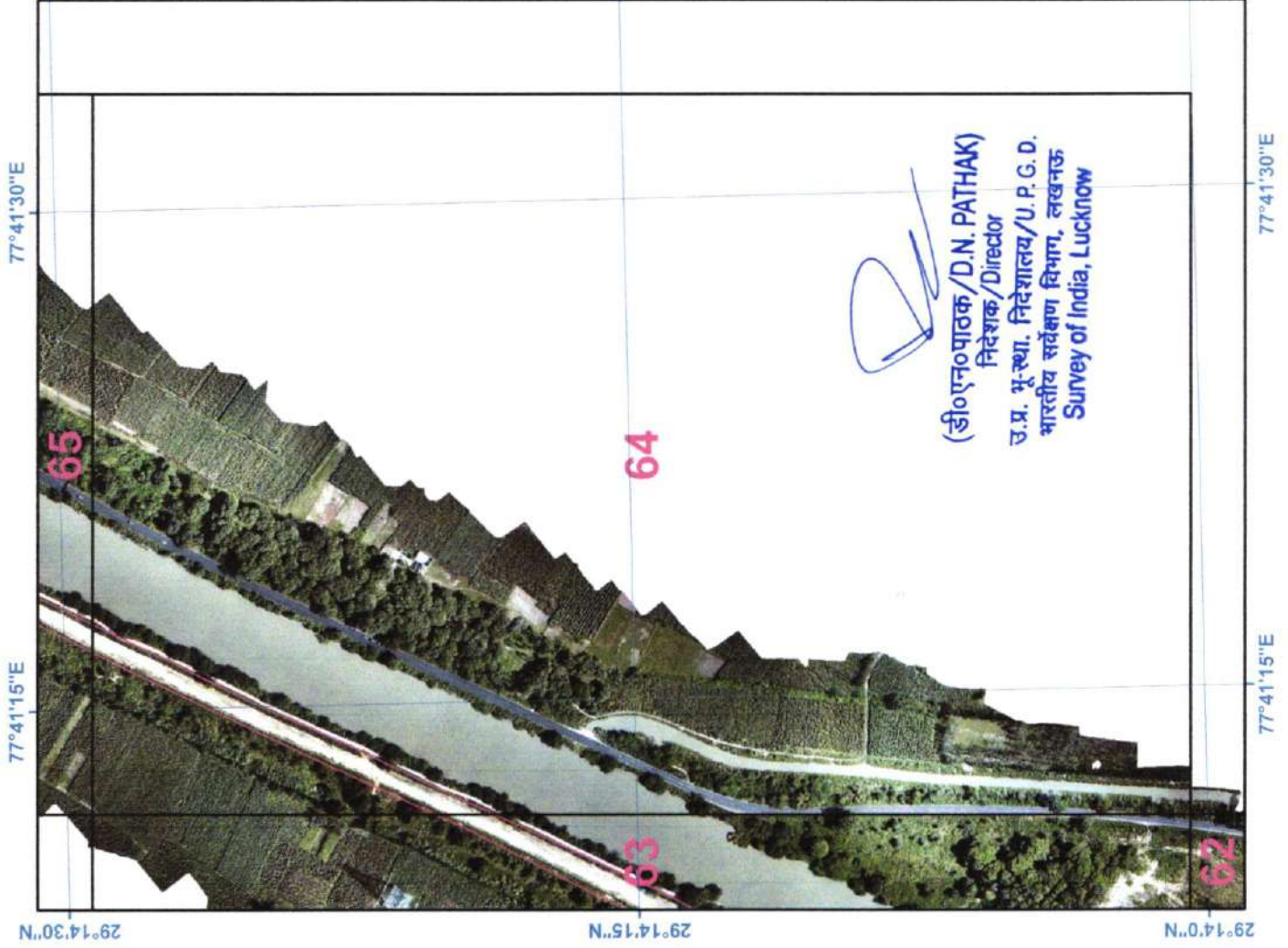
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29°13'30"N

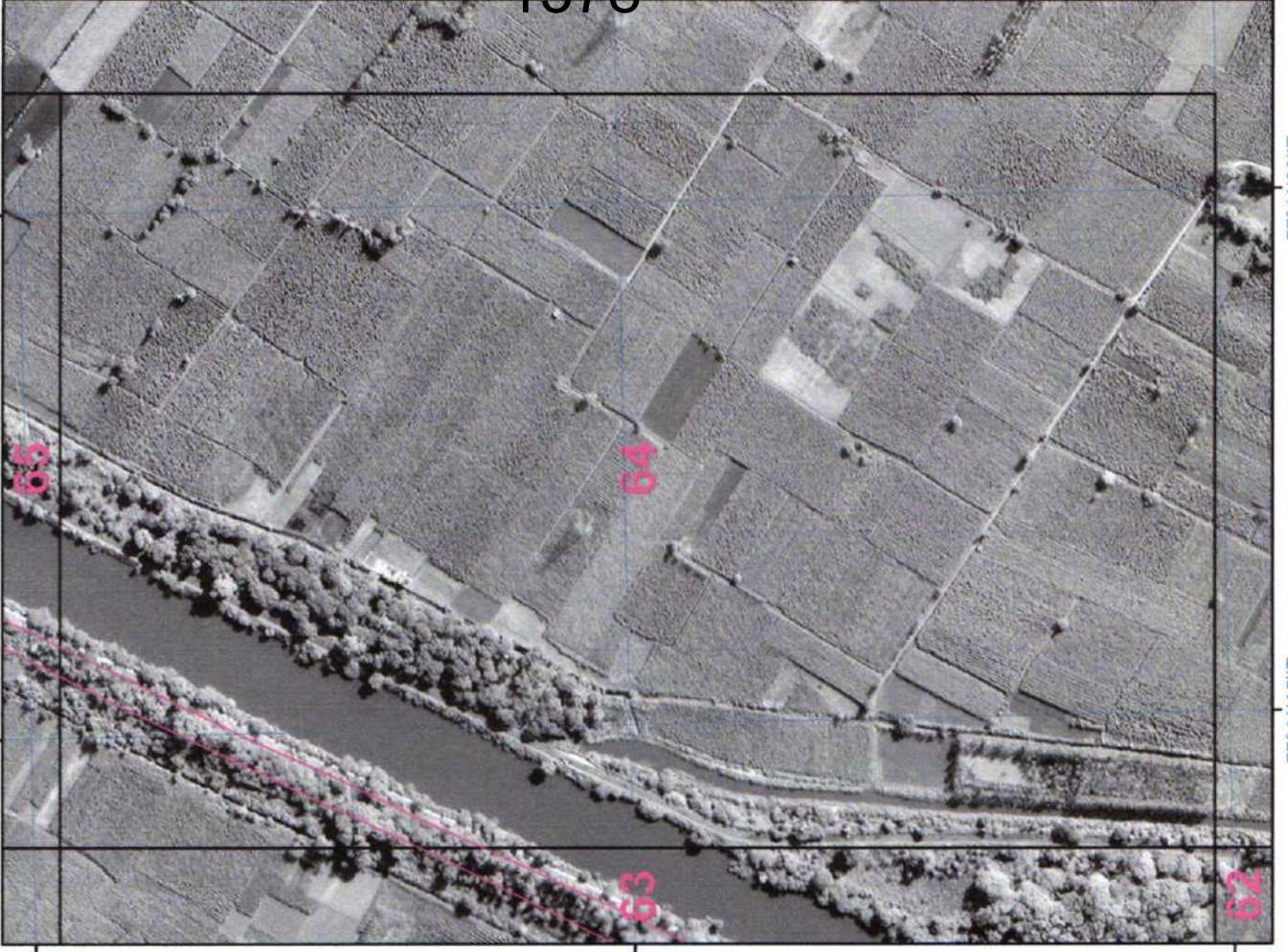
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Satellite Images from NRSC of 2023 AREA_08_04



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1378

29°14'30"N

29°14'0"N

77°41'15"E

29°14'30"N

29°14'15"N

29°14'0"N

77°41'30"E

77°41'30"E

77°41'15"E

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29°14'15"N

29°14'0"N

77°41'15"E

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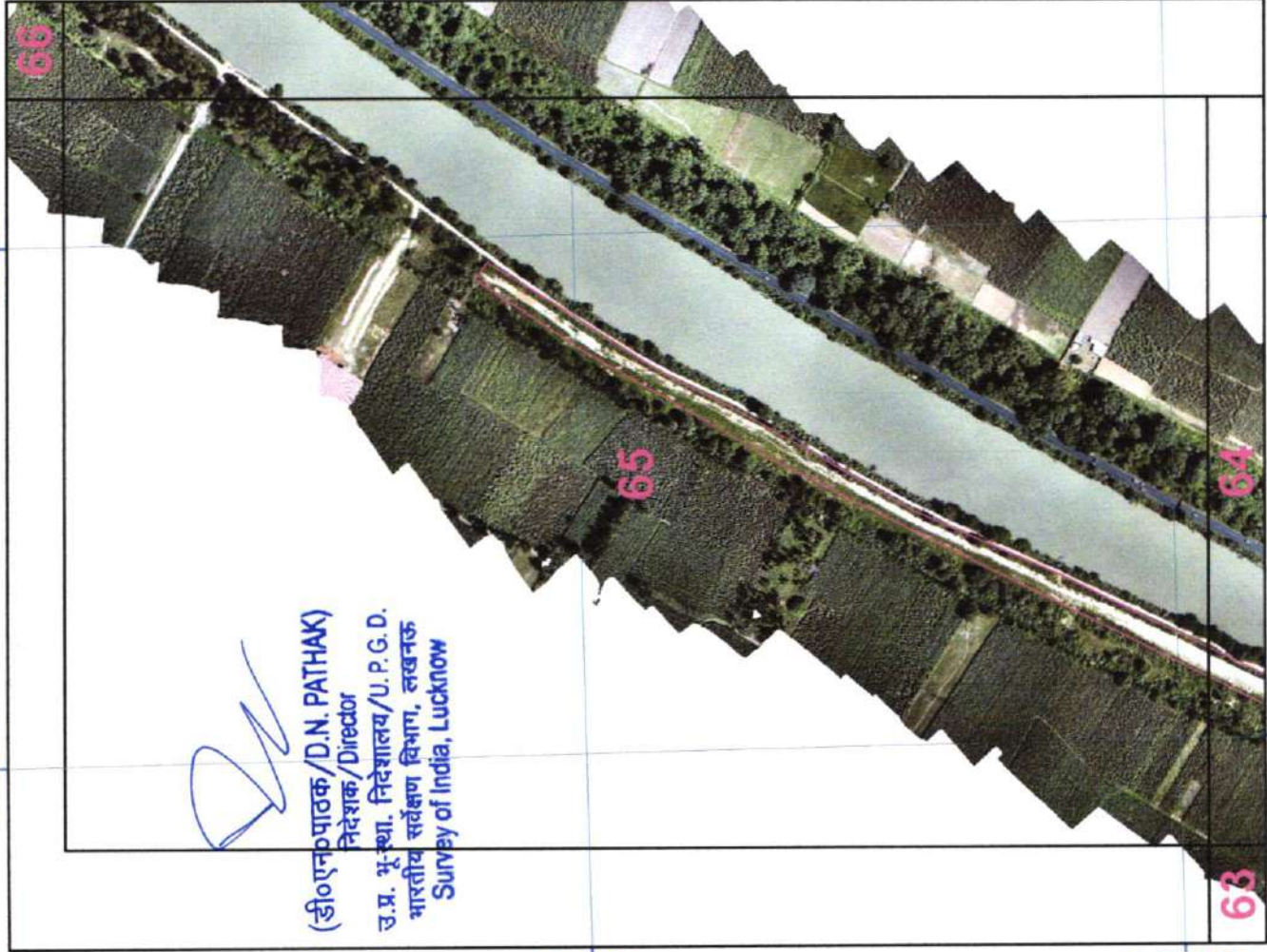
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77°41'30"E

77°41'15"E

77°41'30"E



29°14'45"N

29°14'30"N

29°14'45"N

29°14'30"N

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77°41'30"E

77°41'15"E

77°41'30"E



1379

29°14'30"N

82

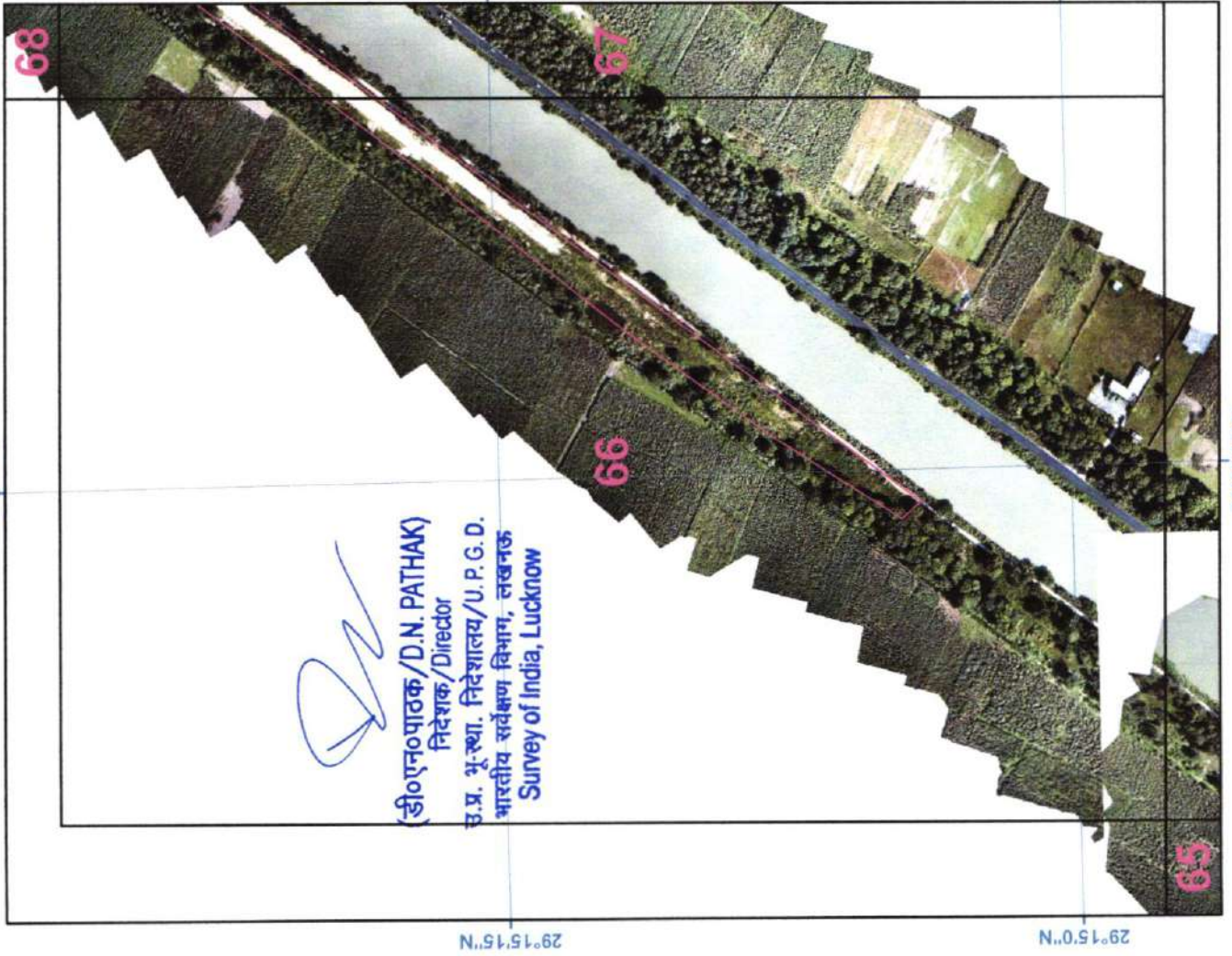
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Satellite Images from NRSC of 2023

77°41'45"E

77°41'45"E



77°41'45"E

77°41'45"E

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023

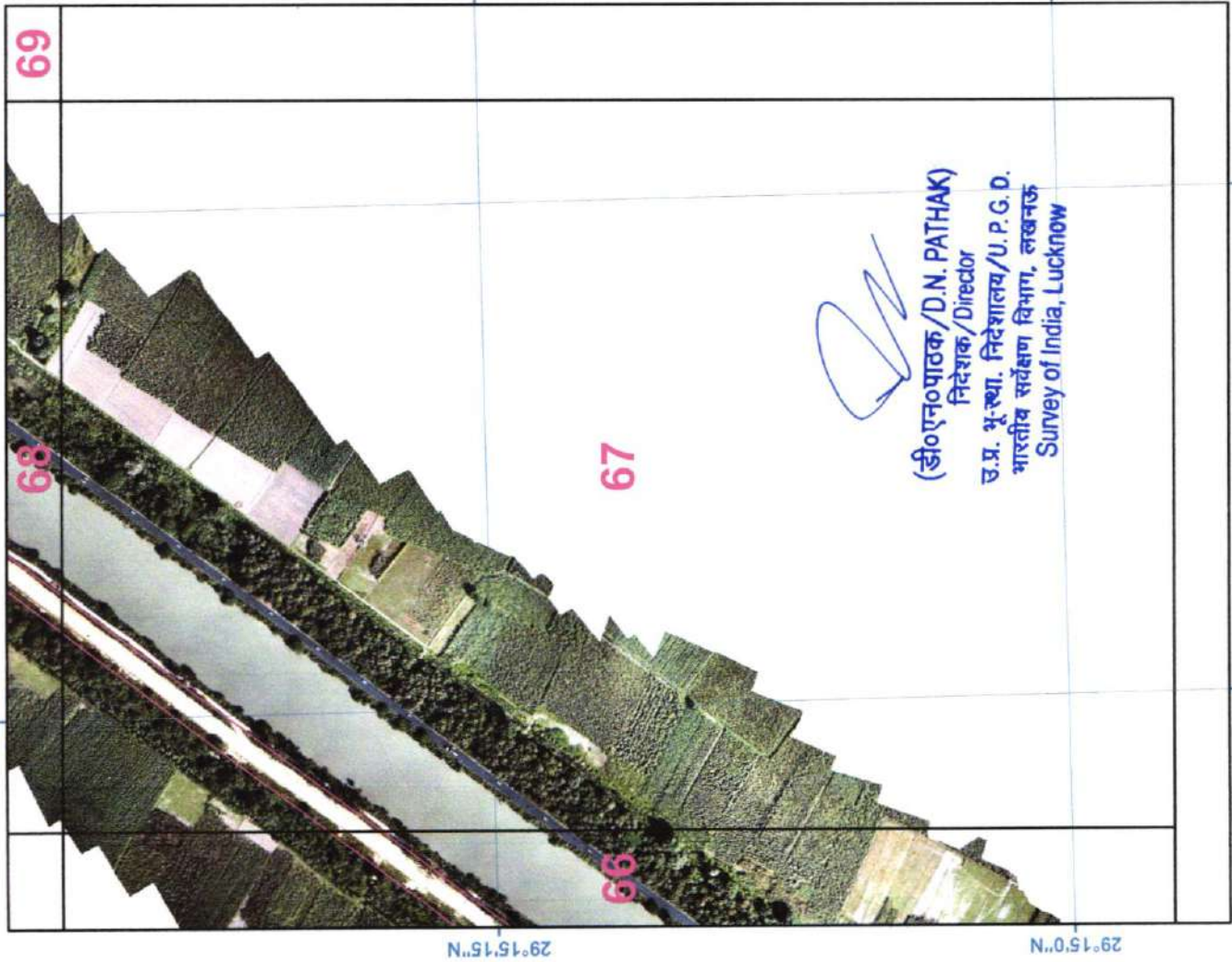
AREA 09_02

77°42'0"E

77°42'15"E

77°42'0"E

77°42'15"E



29°15'0"N

29°15'0"N

29°15'0"N

66

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67

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67

69

77°42'0"E

77°42'15"E

77°42'0"E

77°42'15"E

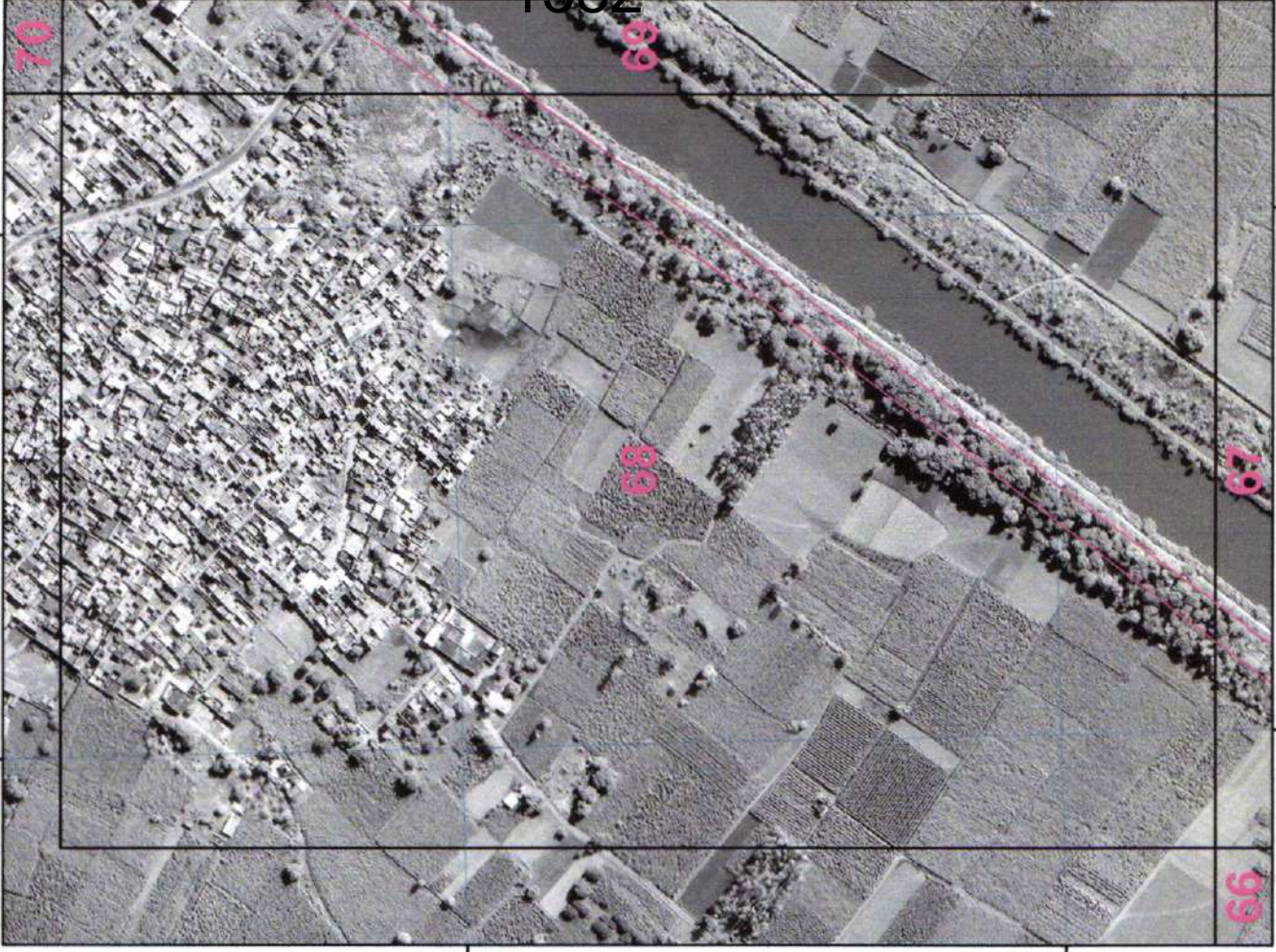
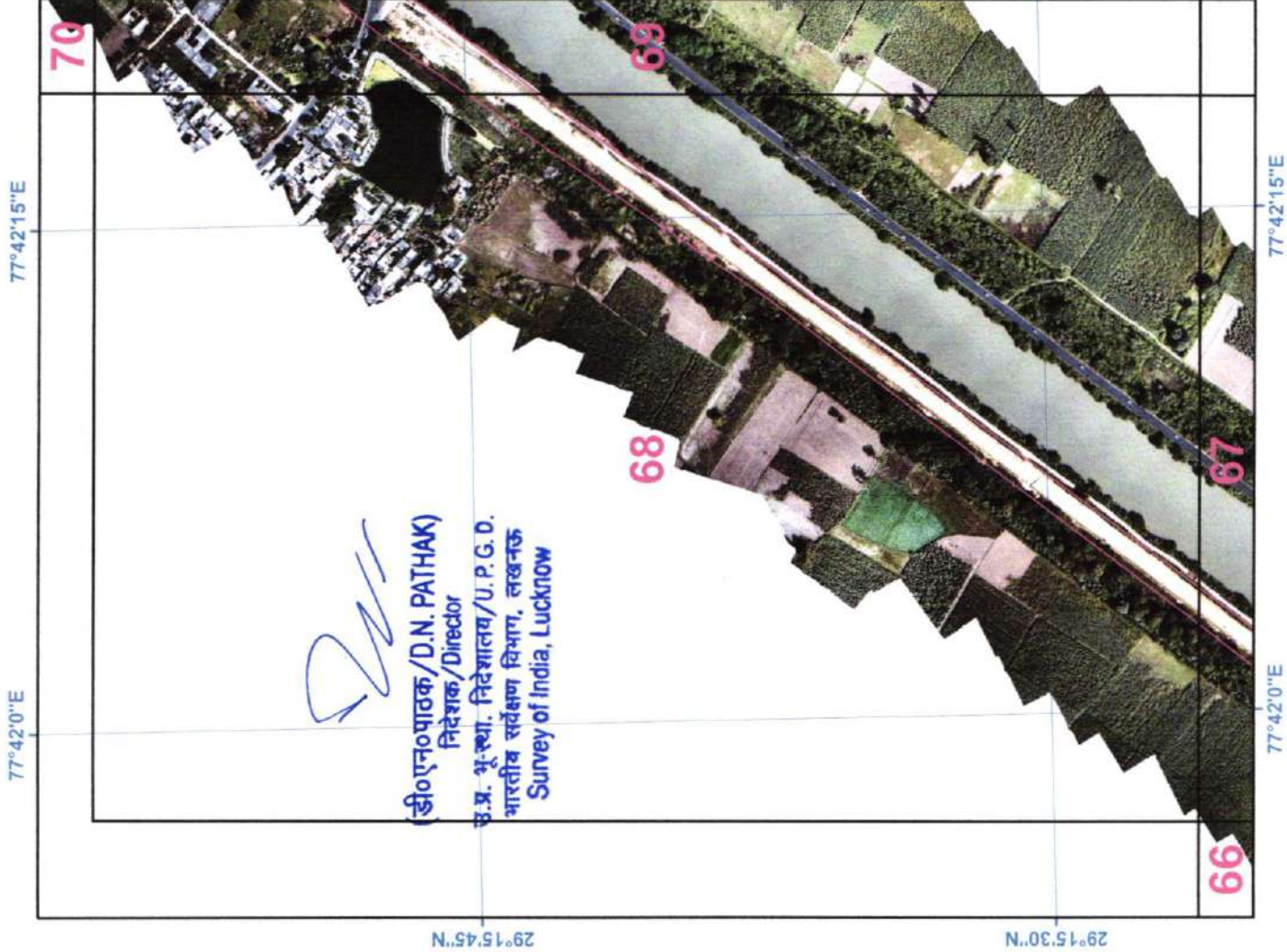
1381

84

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Satellite Images from NRSC of 2023 AREA_09_03

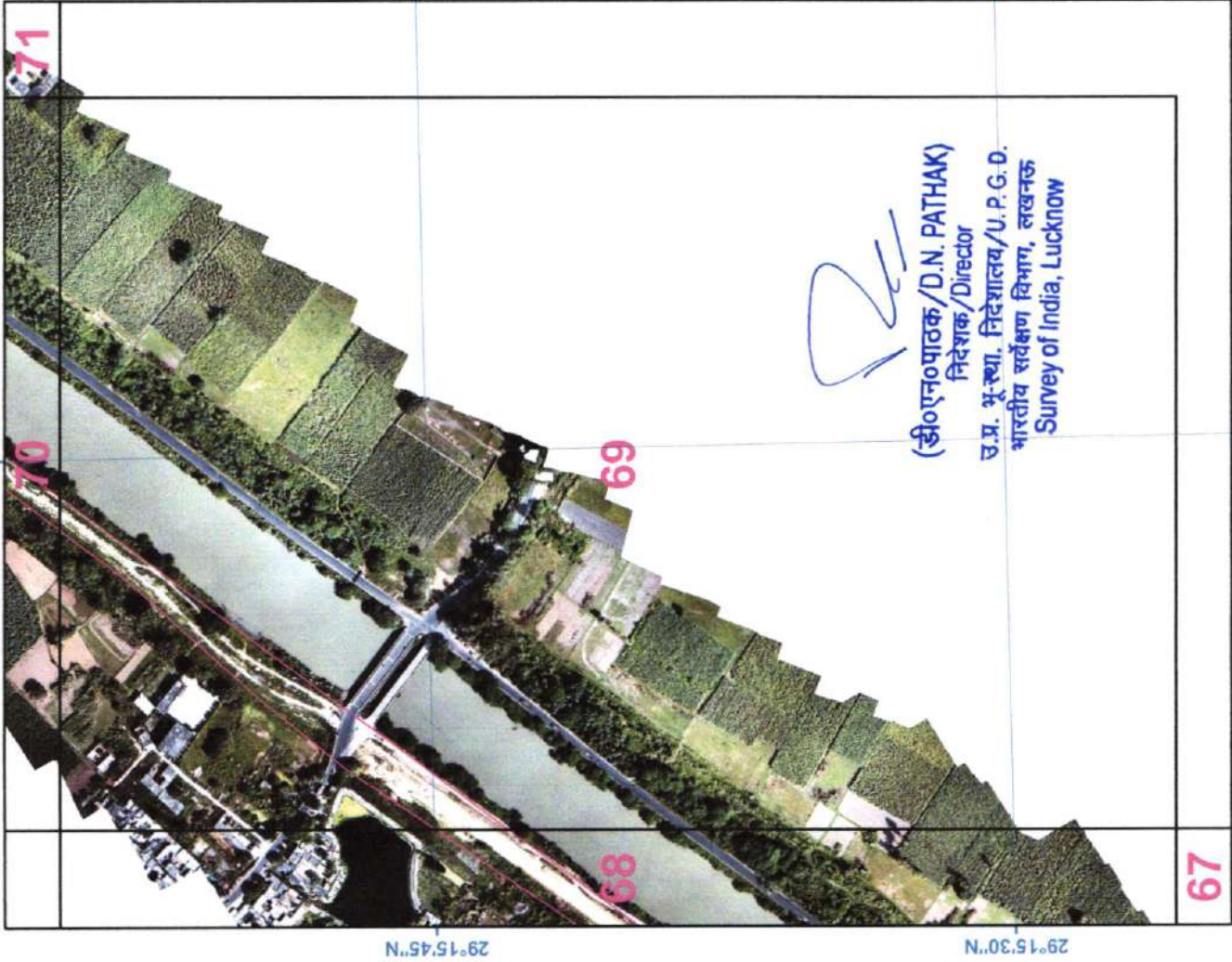


1382

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77°42'30"E



29°15'45"N

29°15'30"N

67

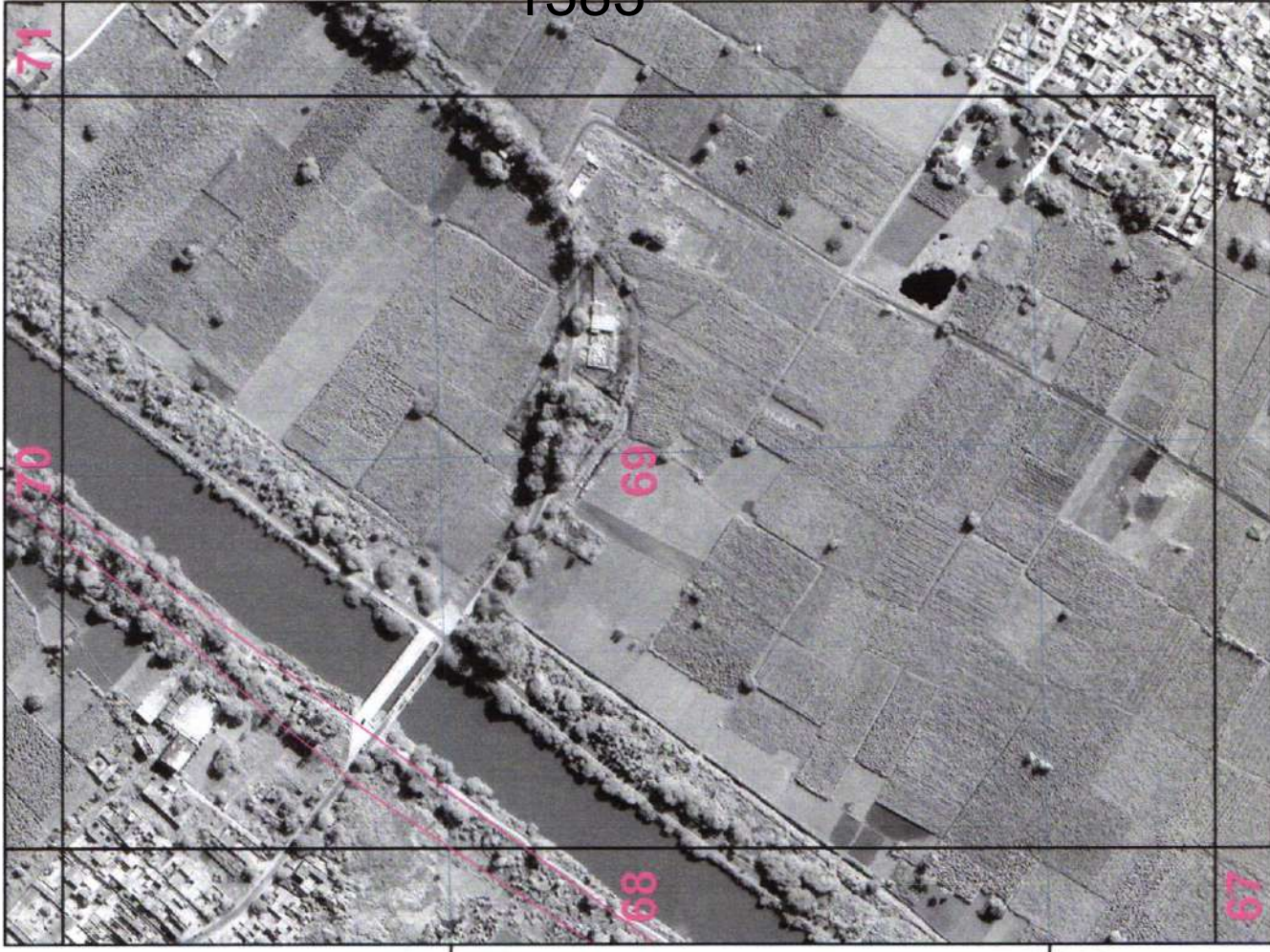
77°42'30"E


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AREA_09_04

77°42'30"E



29°15'45"N

1383

29°15'30"N

68

77°42'30"E

67

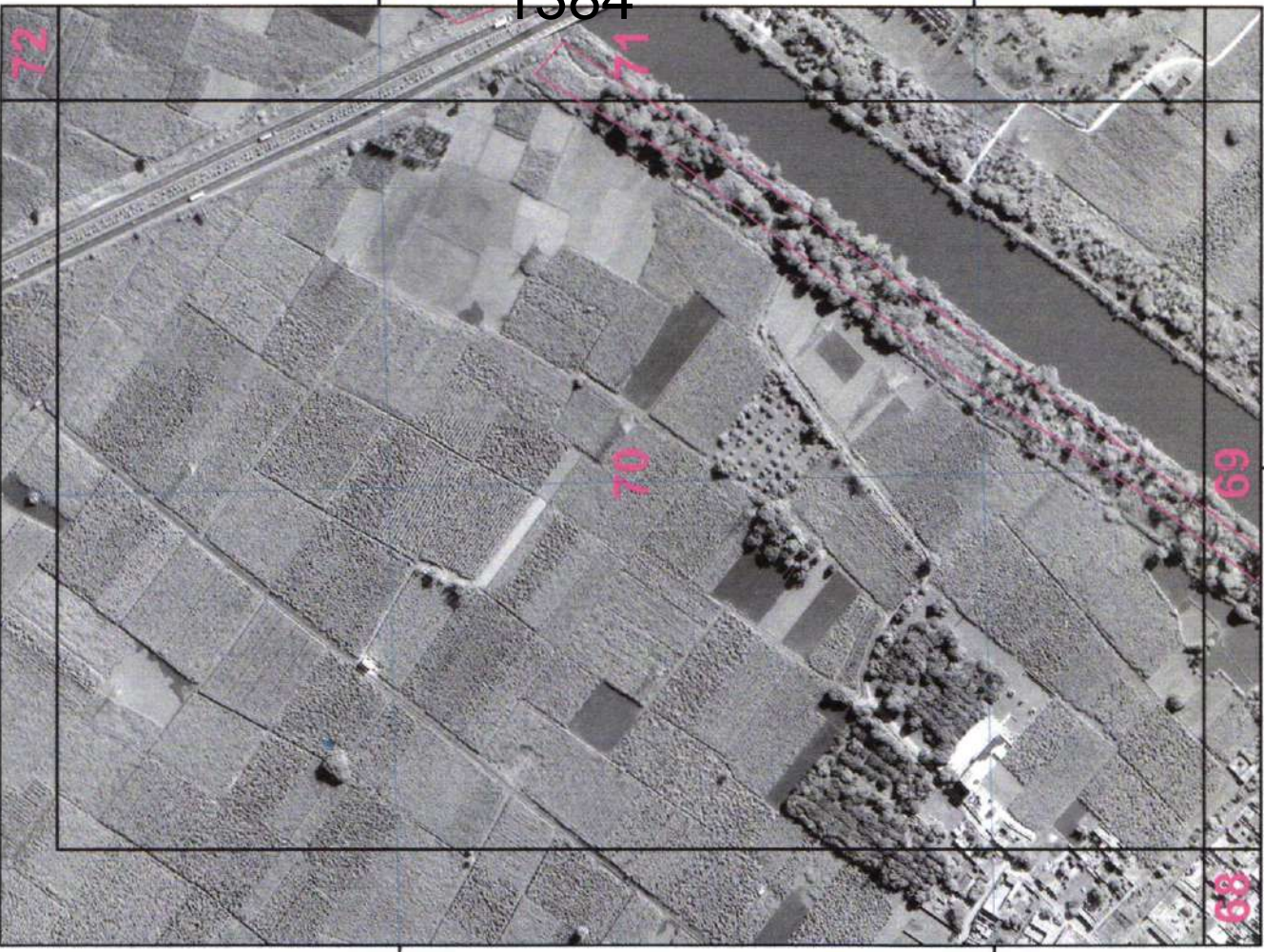
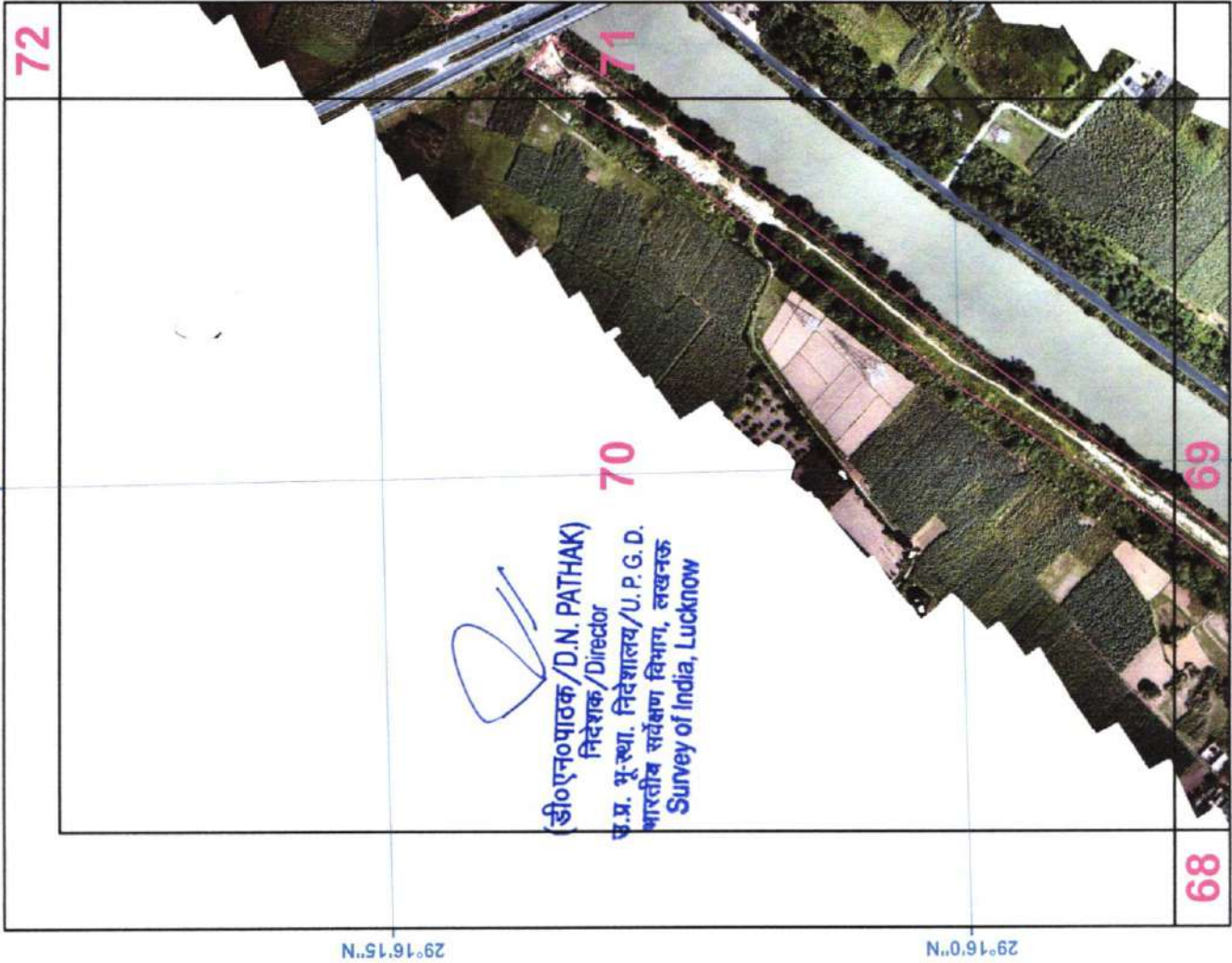
SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_09_05

77°42'30"E

77°42'30"E



29°16'15"N

29°16'15"N

29°16'0"N

29°16'0"N

77°42'30"E

77°42'30"E

72

72

70

70

68

69

68

69

1384

87

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Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_10_01



1385

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Satellite Images from NRSC of 2023

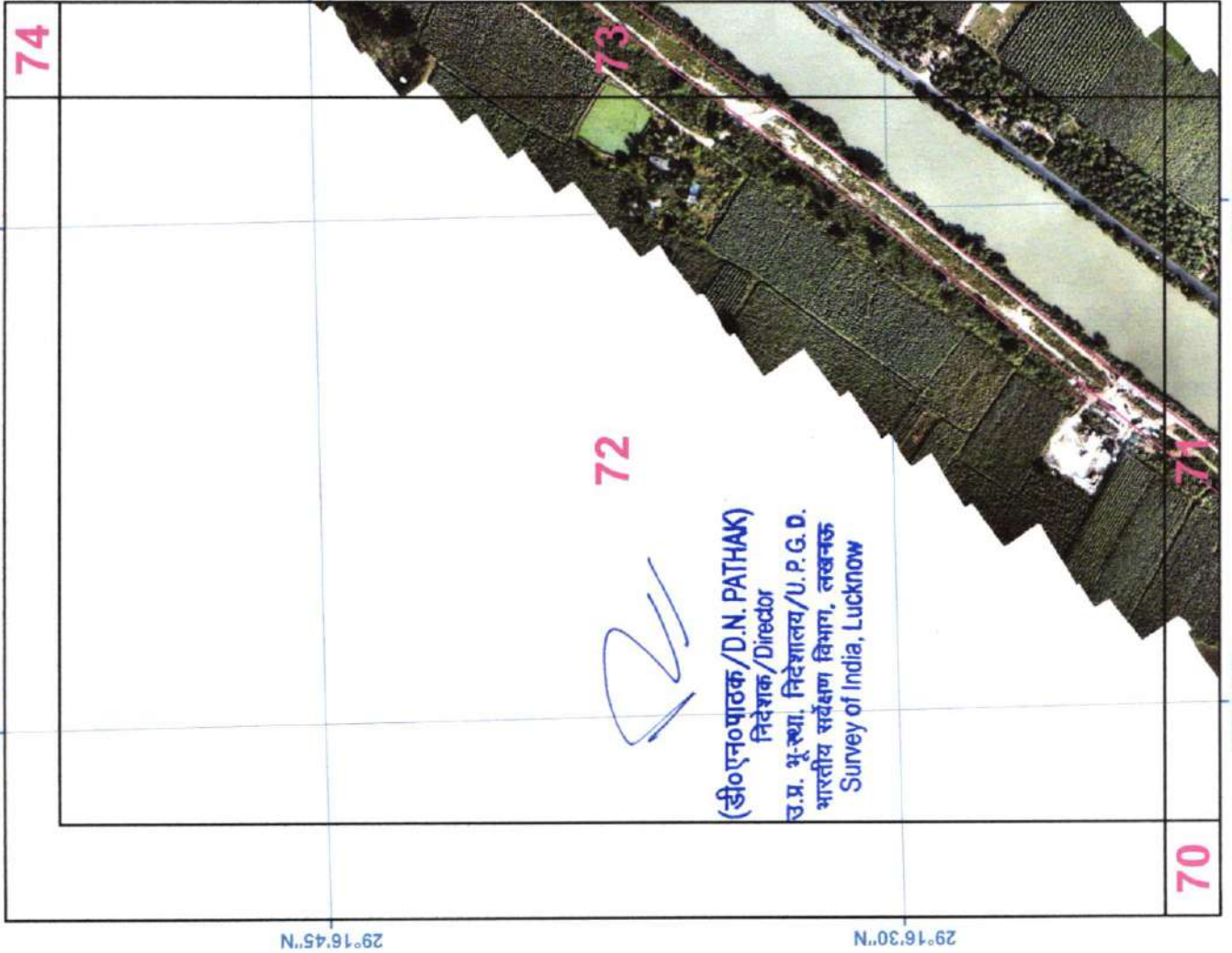
AREA_10_01

77°42'45"E

77°43'0"E

77°42'45"E

77°43'0"E



29°16'45"N, 29°16'30"N, 29°16'45"N, 29°16'30"N

74

74

72

72

70

70

71

74

77°42'45"E

77°43'0"E

77°42'45"E

77°43'0"E

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1386

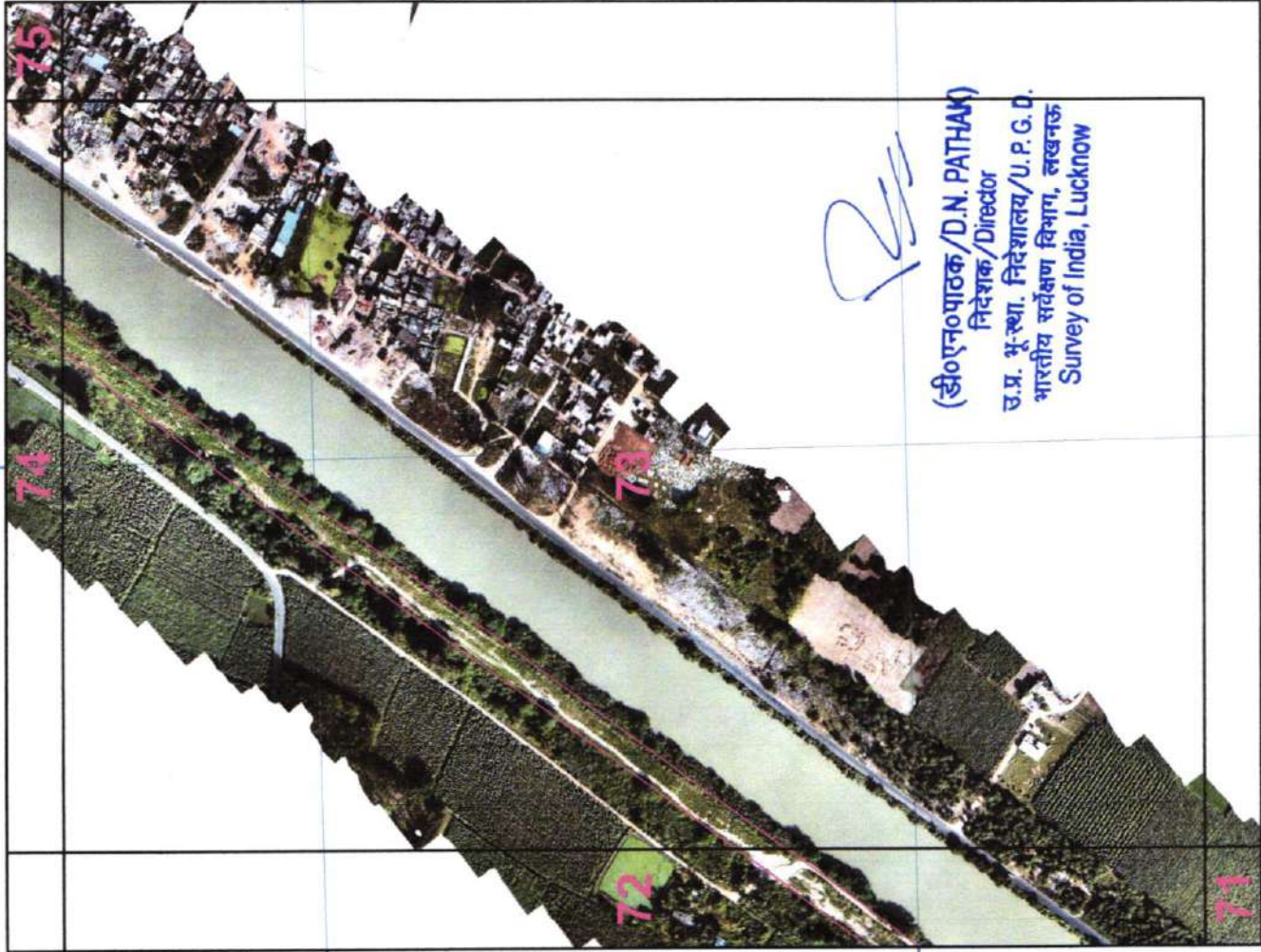
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SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA_10_02

77°43'15"E



29°16'45"N

29°16'30"N

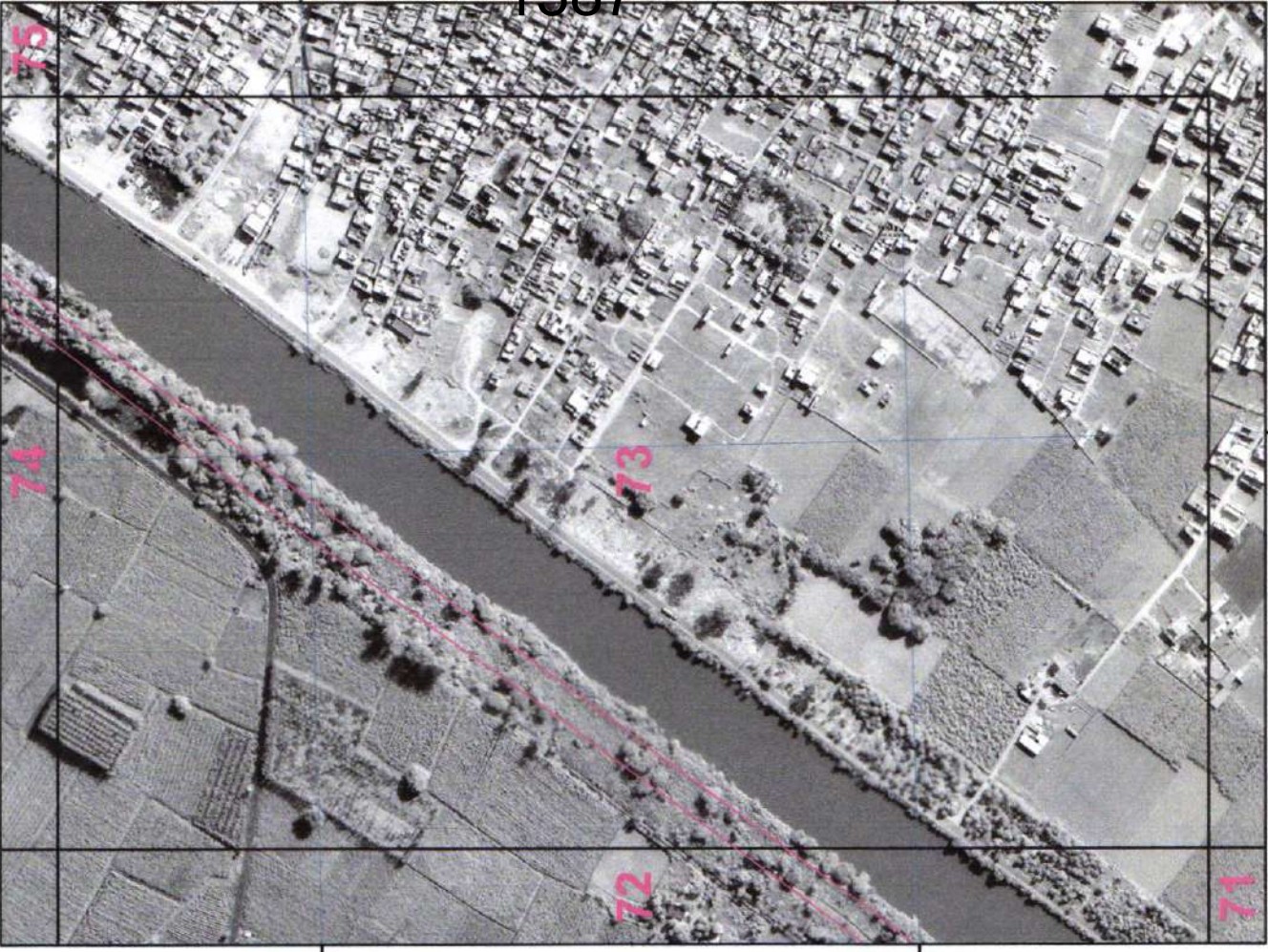
29°16'45"N

29°16'30"N

77°43'15"E

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77°43'15"E



29°16'45"N

29°16'30"N

77°43'15"E

1387

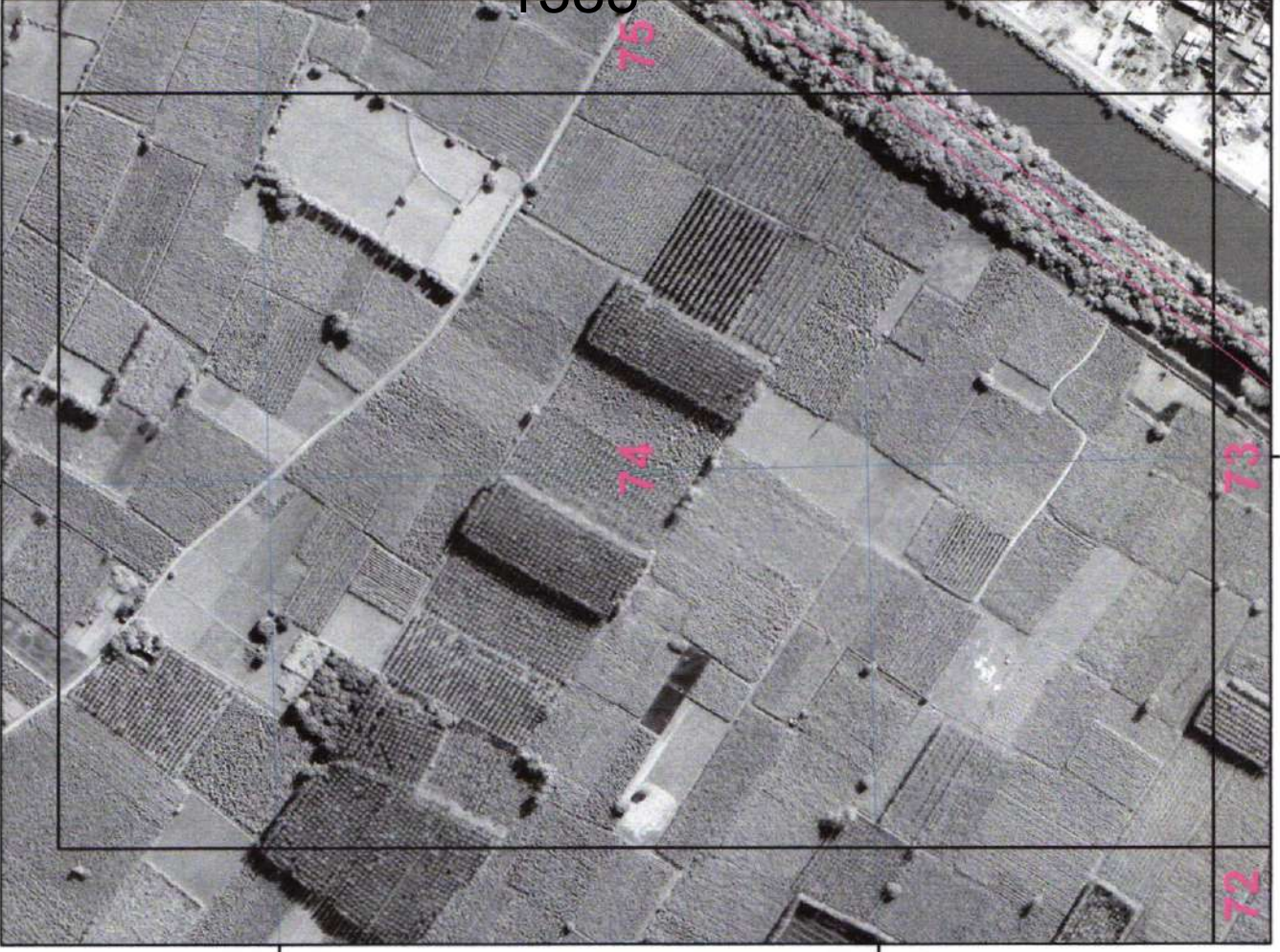
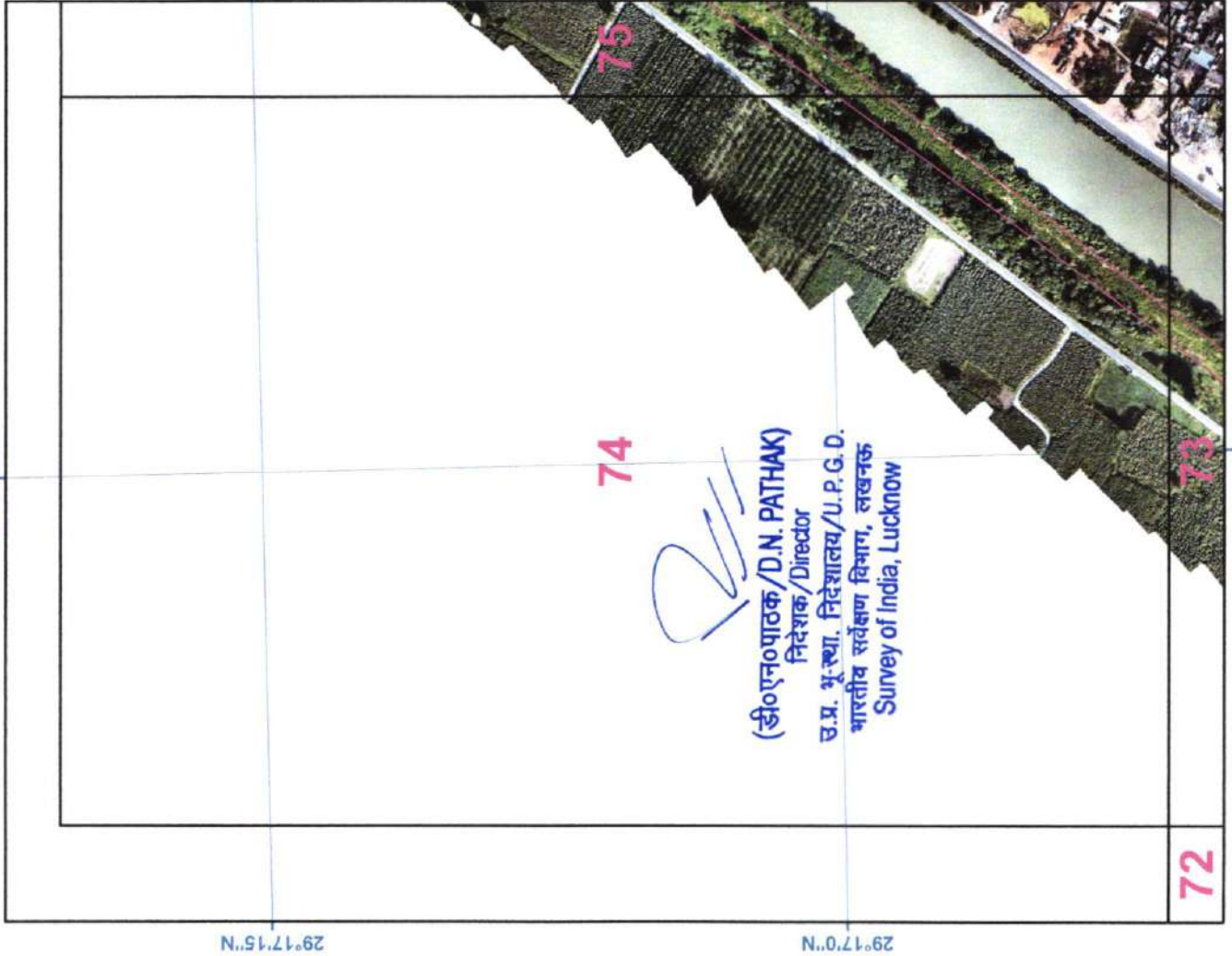
SURVEY OF INDIA

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Satellite Images from NRSC of 2023

77°43'15"E

77°43'15"E



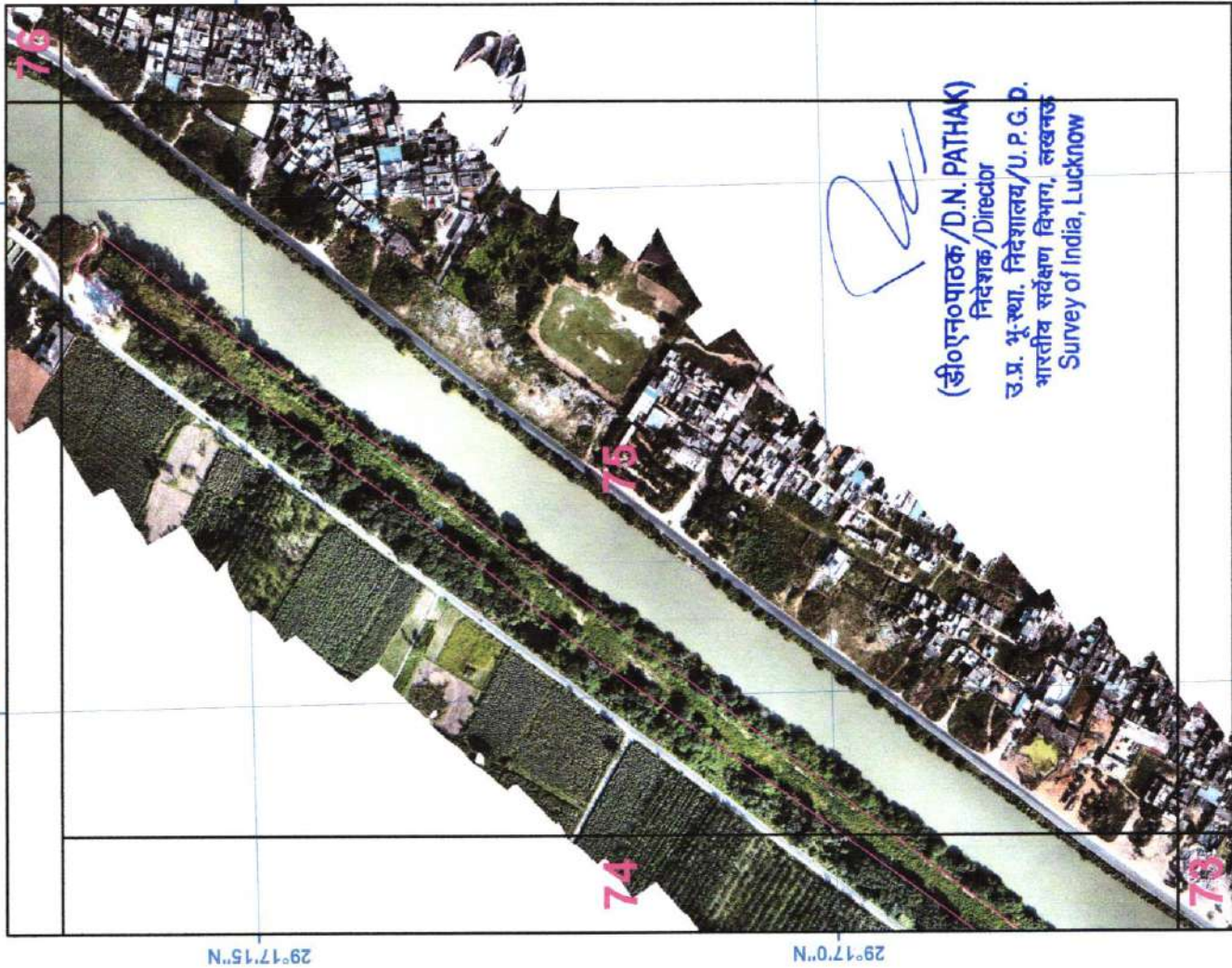
1388

91

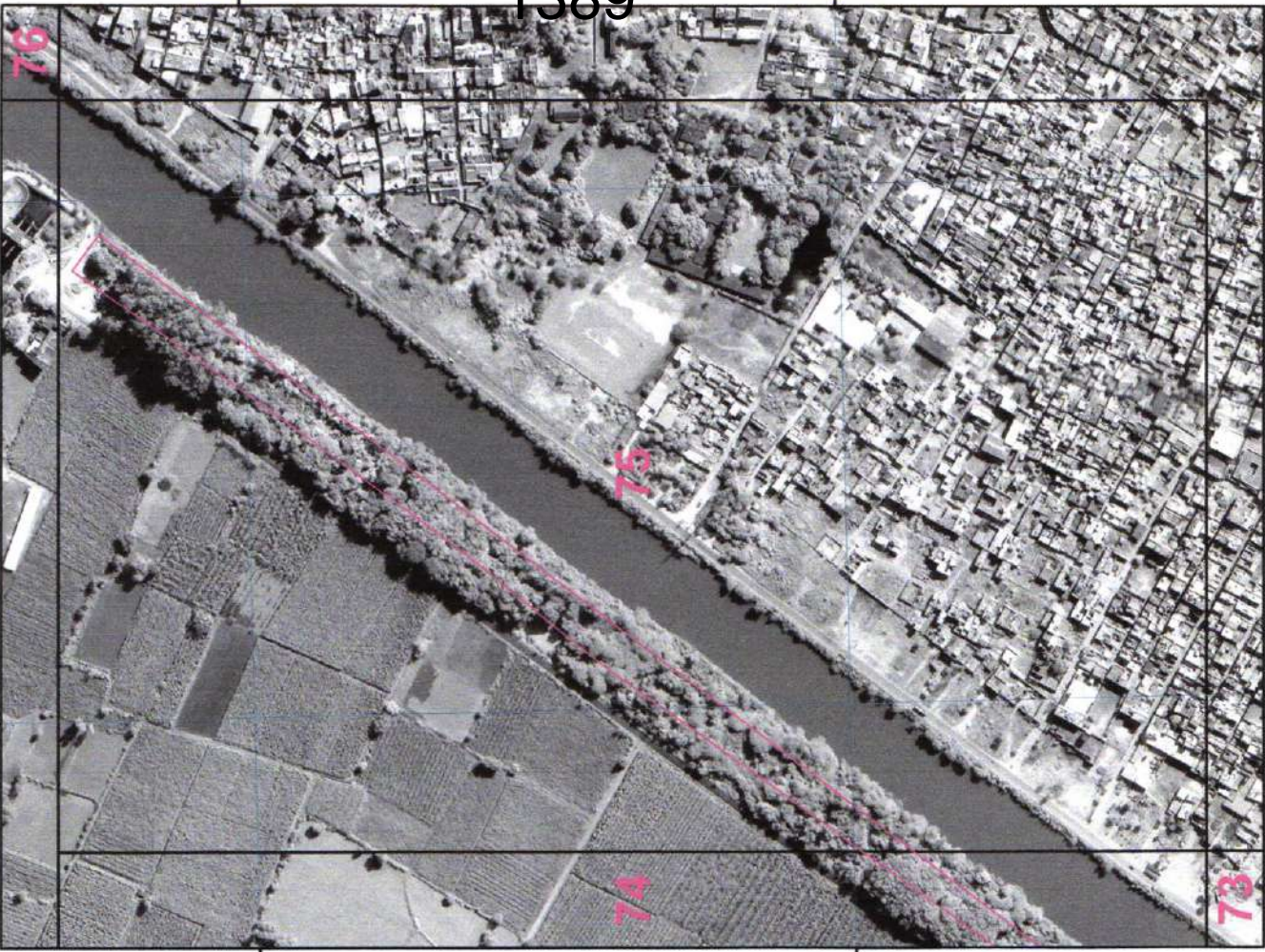
SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA 10_04
77°43'30"E 77°43'45"E



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1389

92

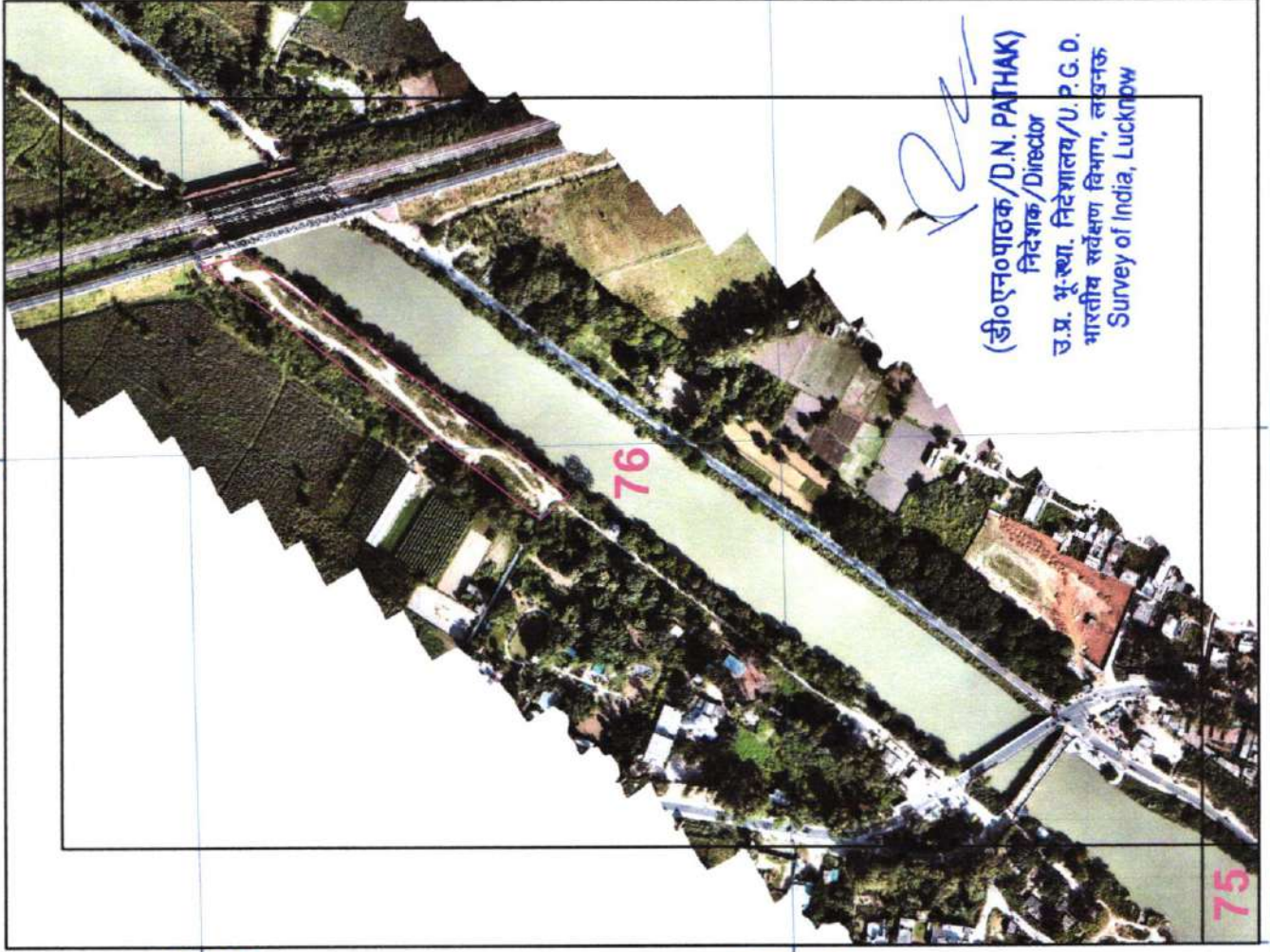
SURVEY OF INDIA

Drone Images Oct 2024

77°44'0"E

29°17'45"N

29°17'30"N



RZ
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77°43'45"E

77°44'0"E

29°17'45"N

29°17'30"N



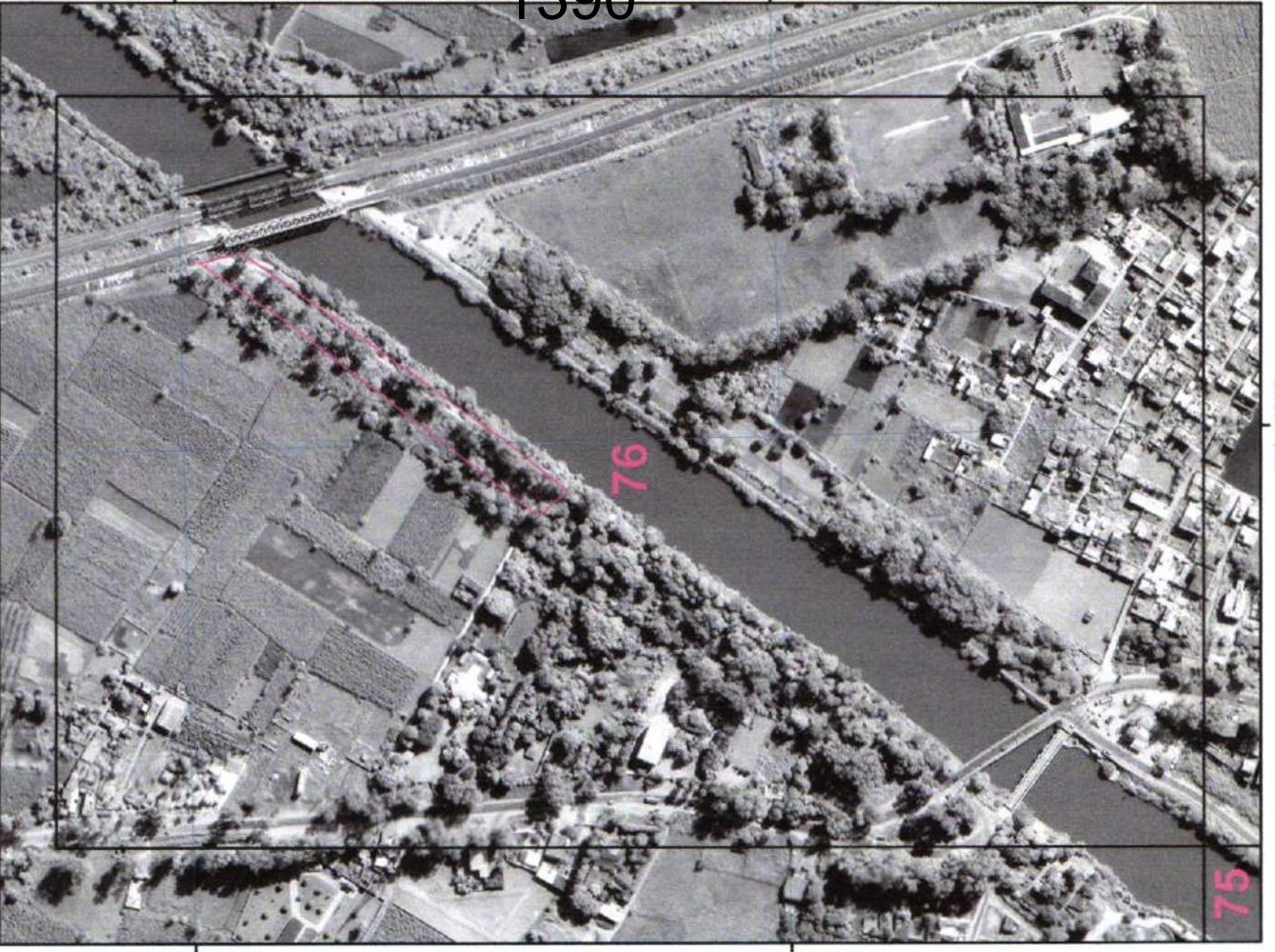
77°44'0"E

93

1390

29°17'30"N

29°17'45"N



75

Satellite Images from NRSC of 2023 AREA_11_01

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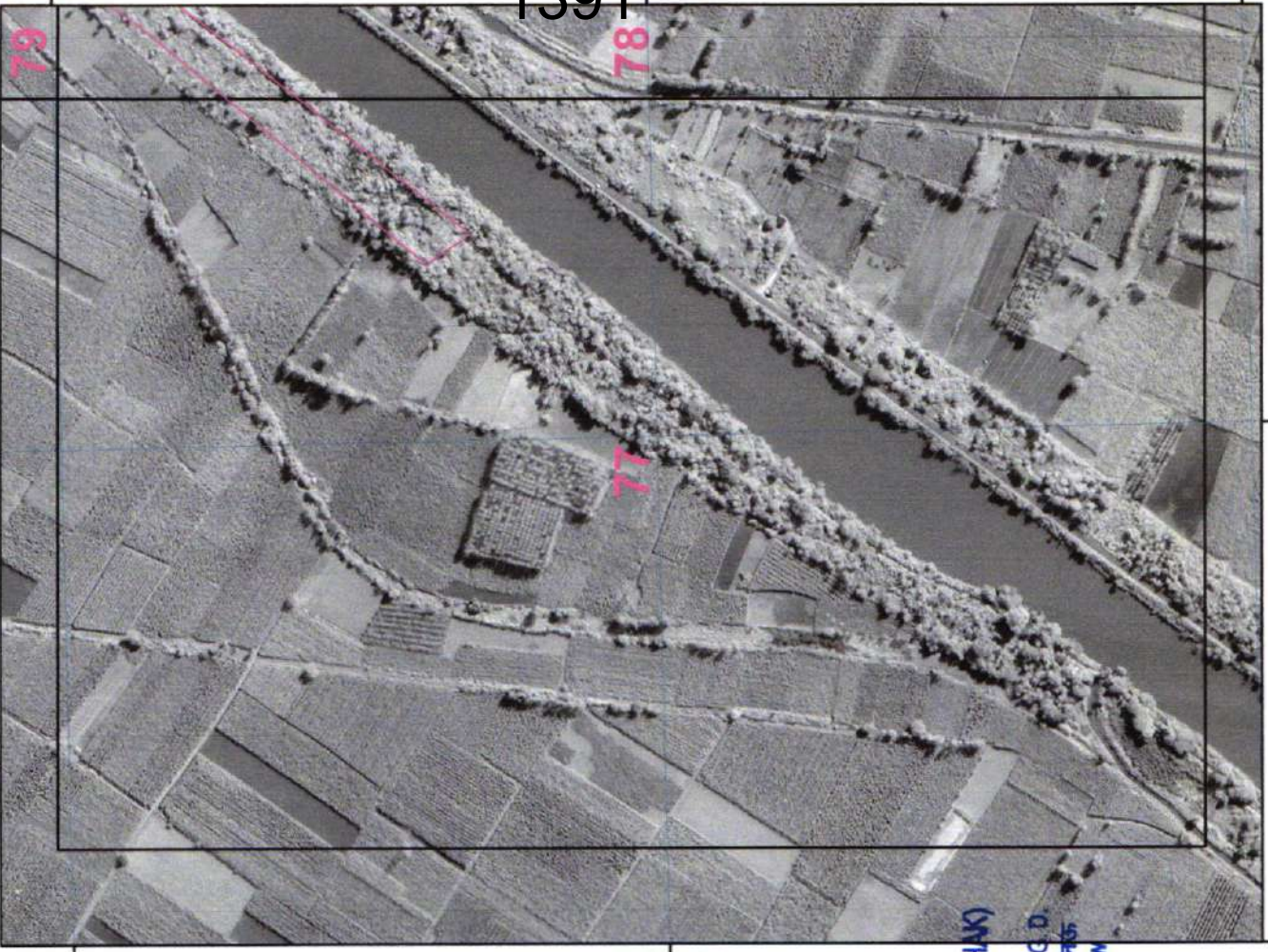
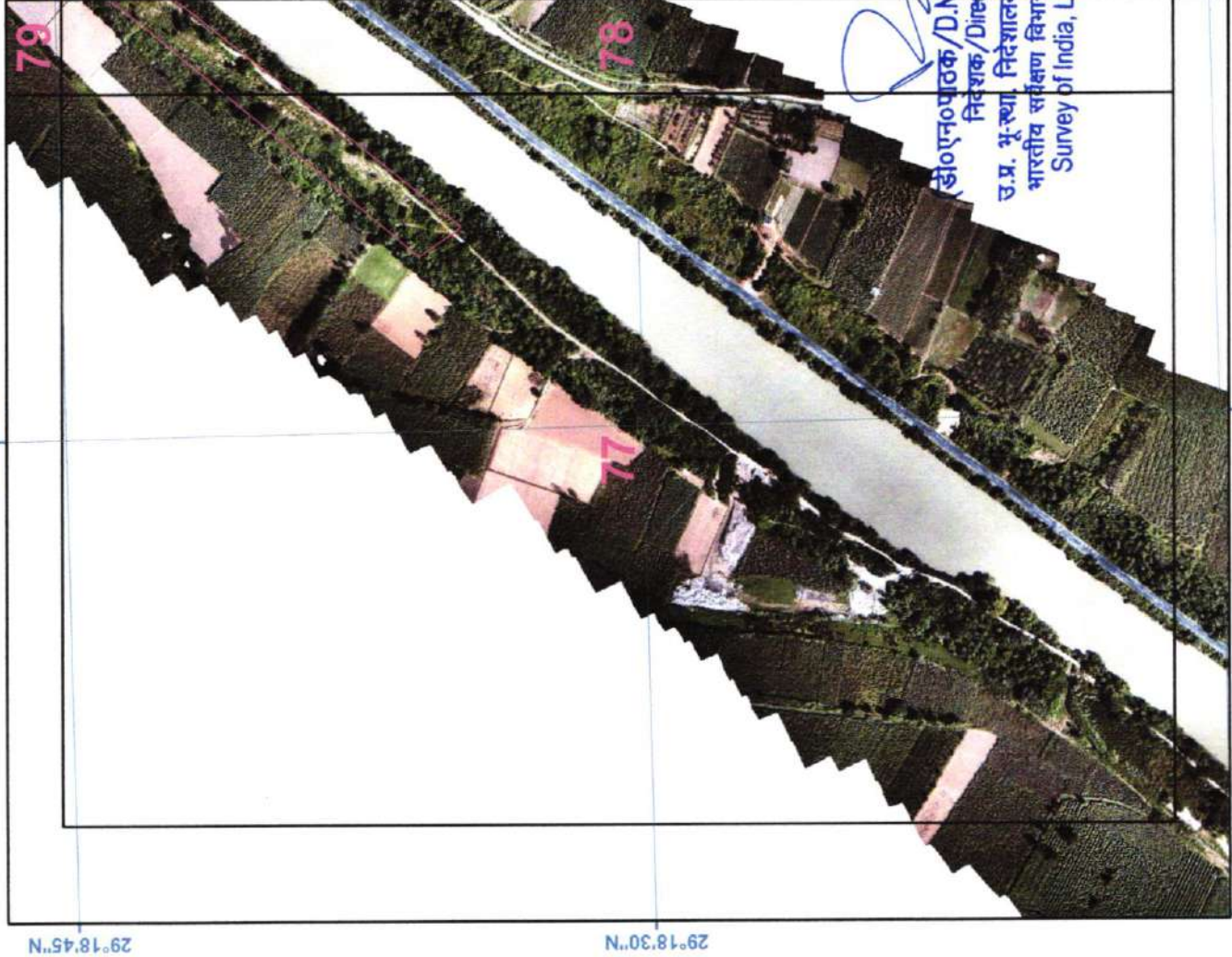
SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_12_01

77°44'45"E

77°44'45"E



29°18'45"N

29°18'30"N

29°18'45"N

29°18'30"N

29°18'45"N

29°18'30"N

77°44'30"E

77°44'45"E

77°44'30"E

77°44'45"E

29°18'15"N

1391

29°18'30"N

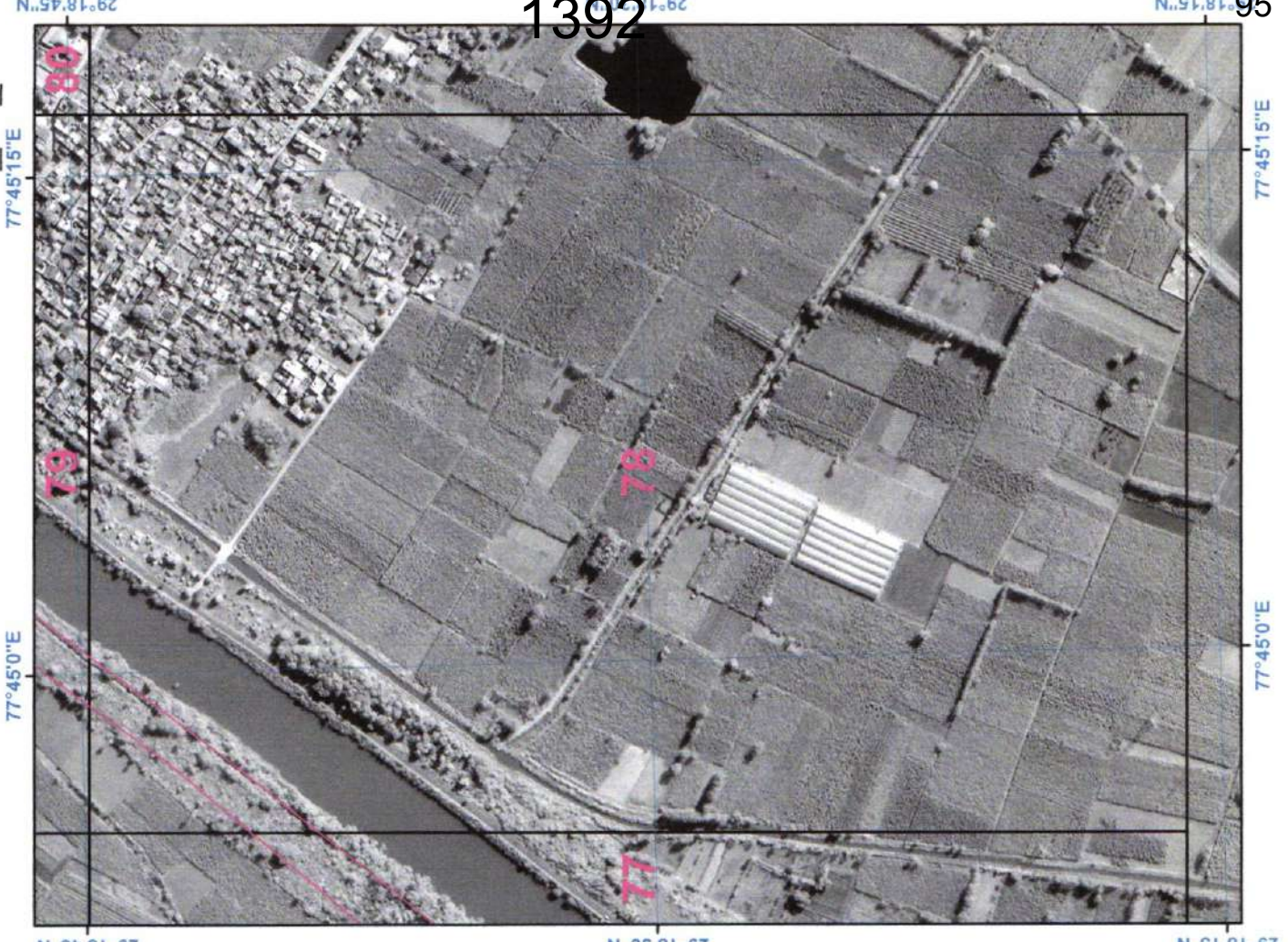
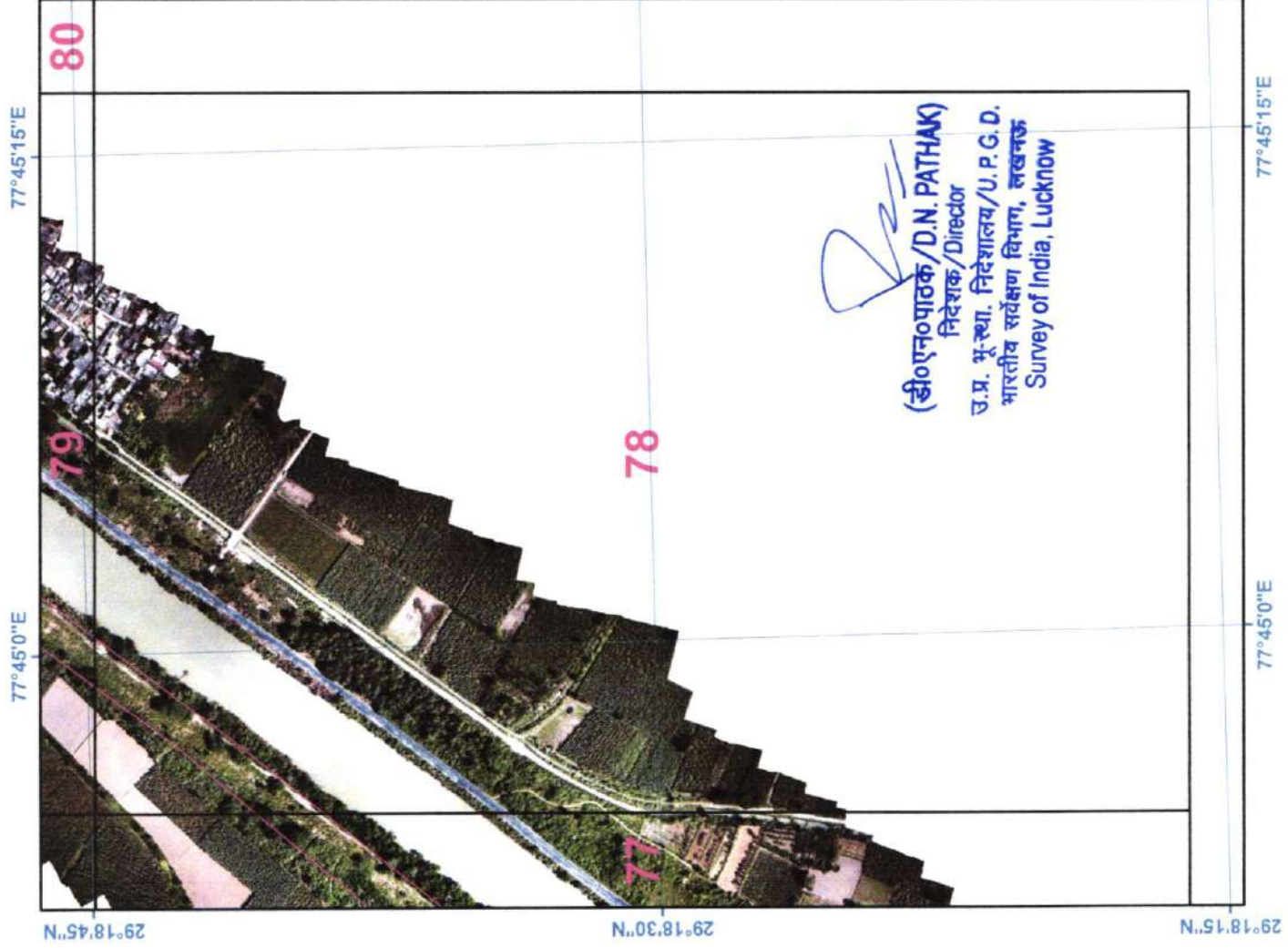
29°18'15"N

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Satellite Images from NRSC of 2023 AREA 12_02



1392

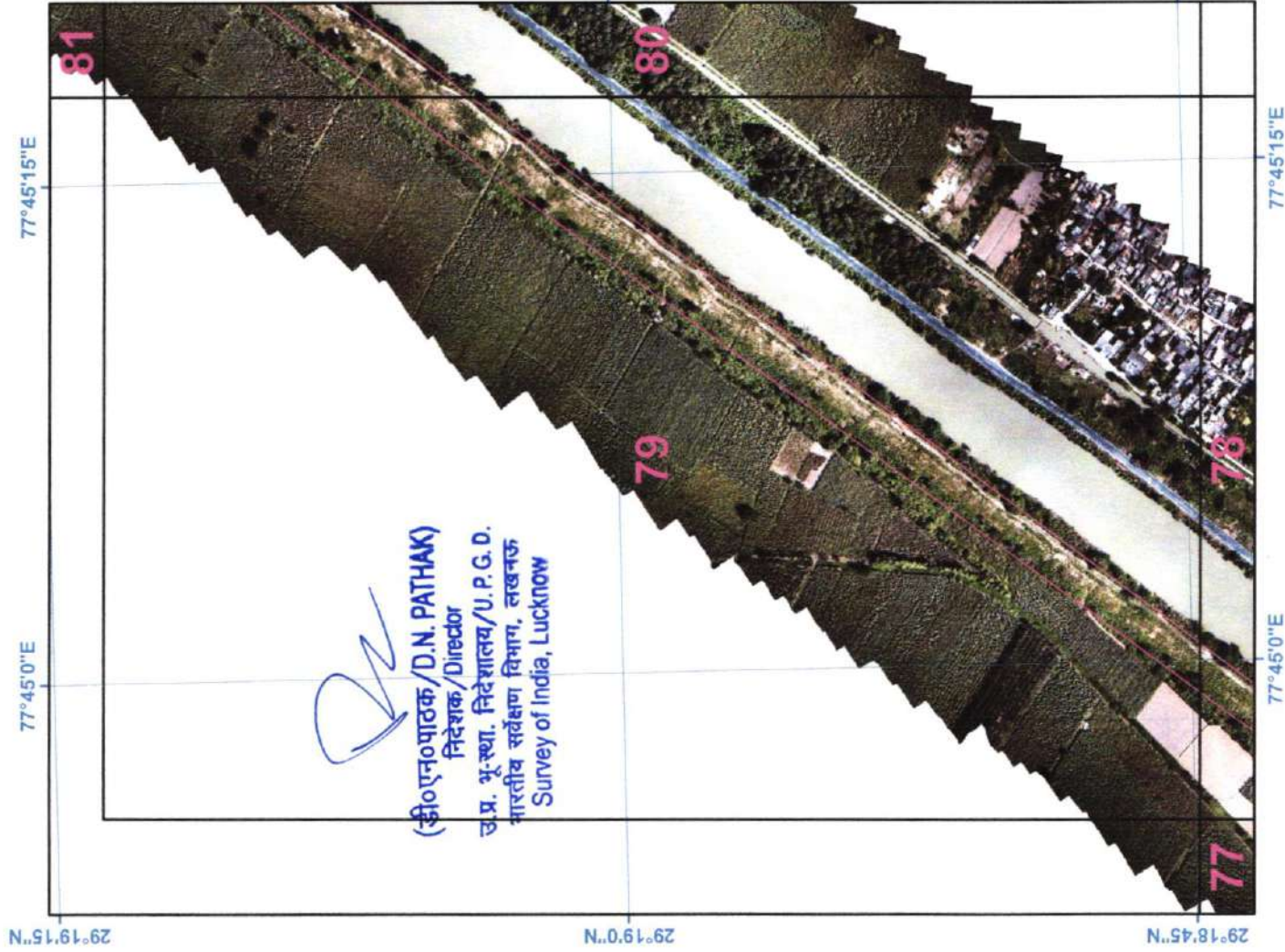
29°18'15"N 77°45'15"E

29°18'45"N 77°45'15"E

SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA 12_03



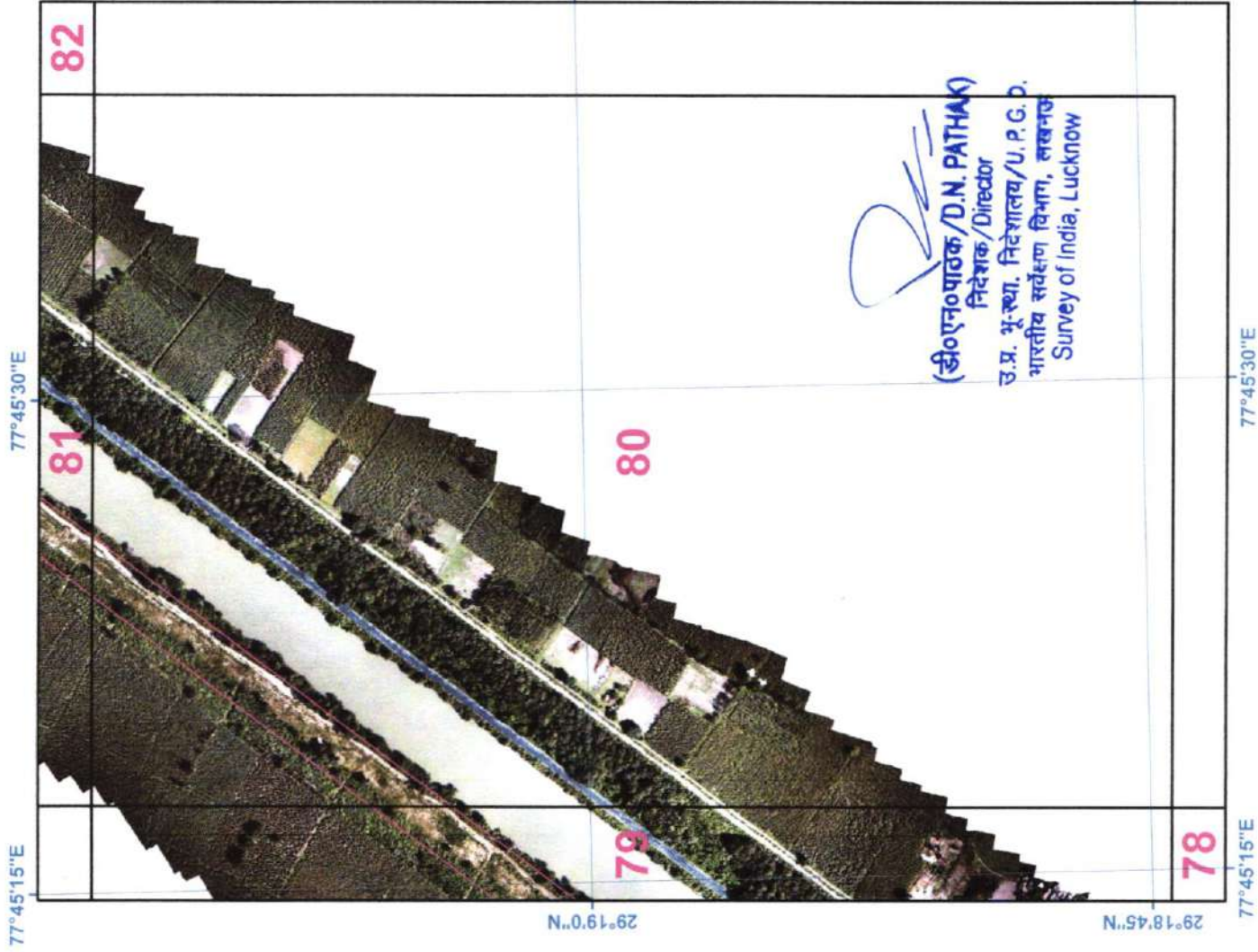
1393

29°18'45"N 96

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_12_04



1394

29°18'45"N 97

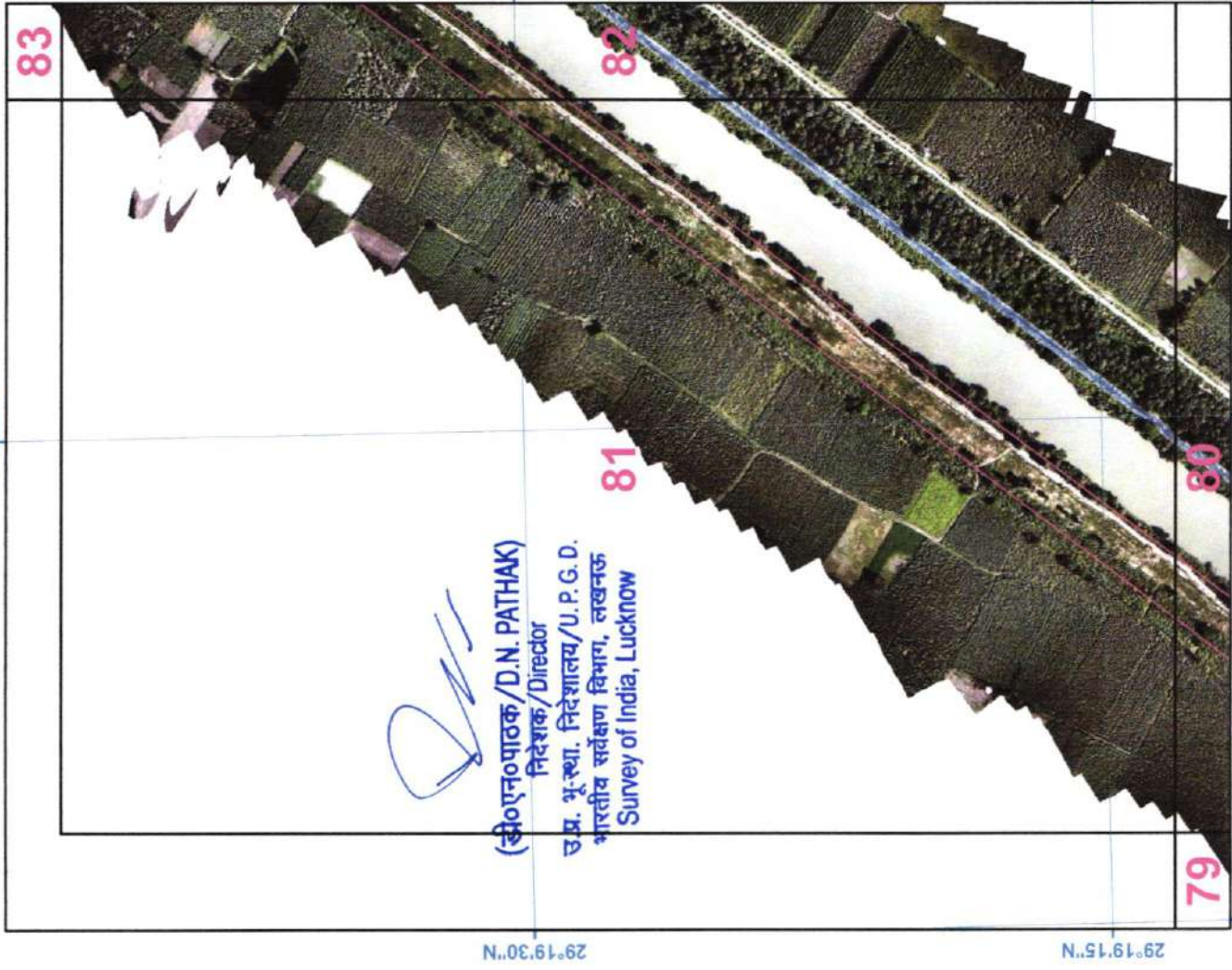
SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA_12_05

77°45'30"E

77°45'30"E



29°19'30"N

29°19'30"N

29°19'15"N

29°19'15"N

77°45'15"E

77°45'30"E

77°45'15"E



1395

1395

29°19'15"N

29°19'15"N

98

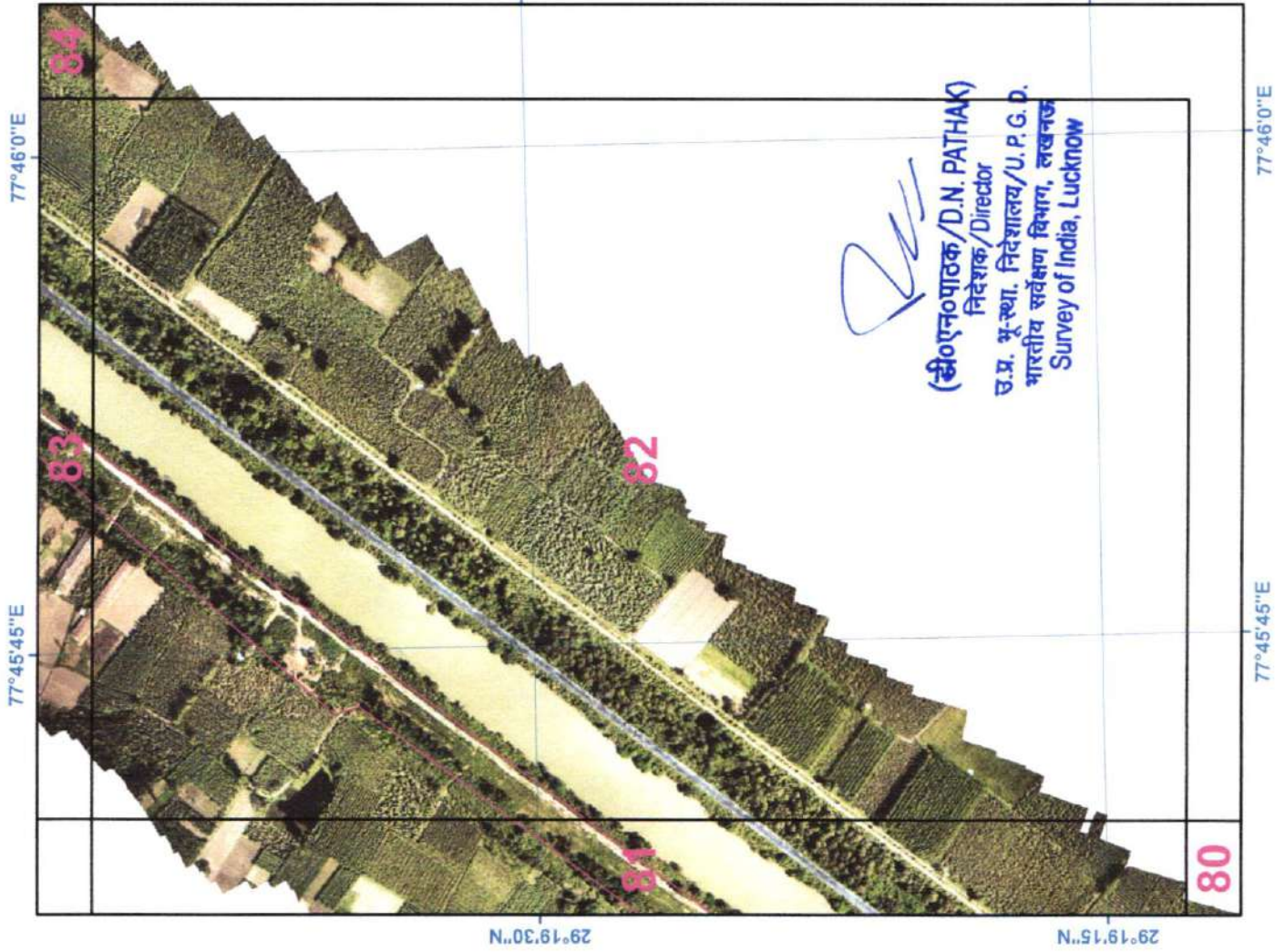
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77°45'15"E

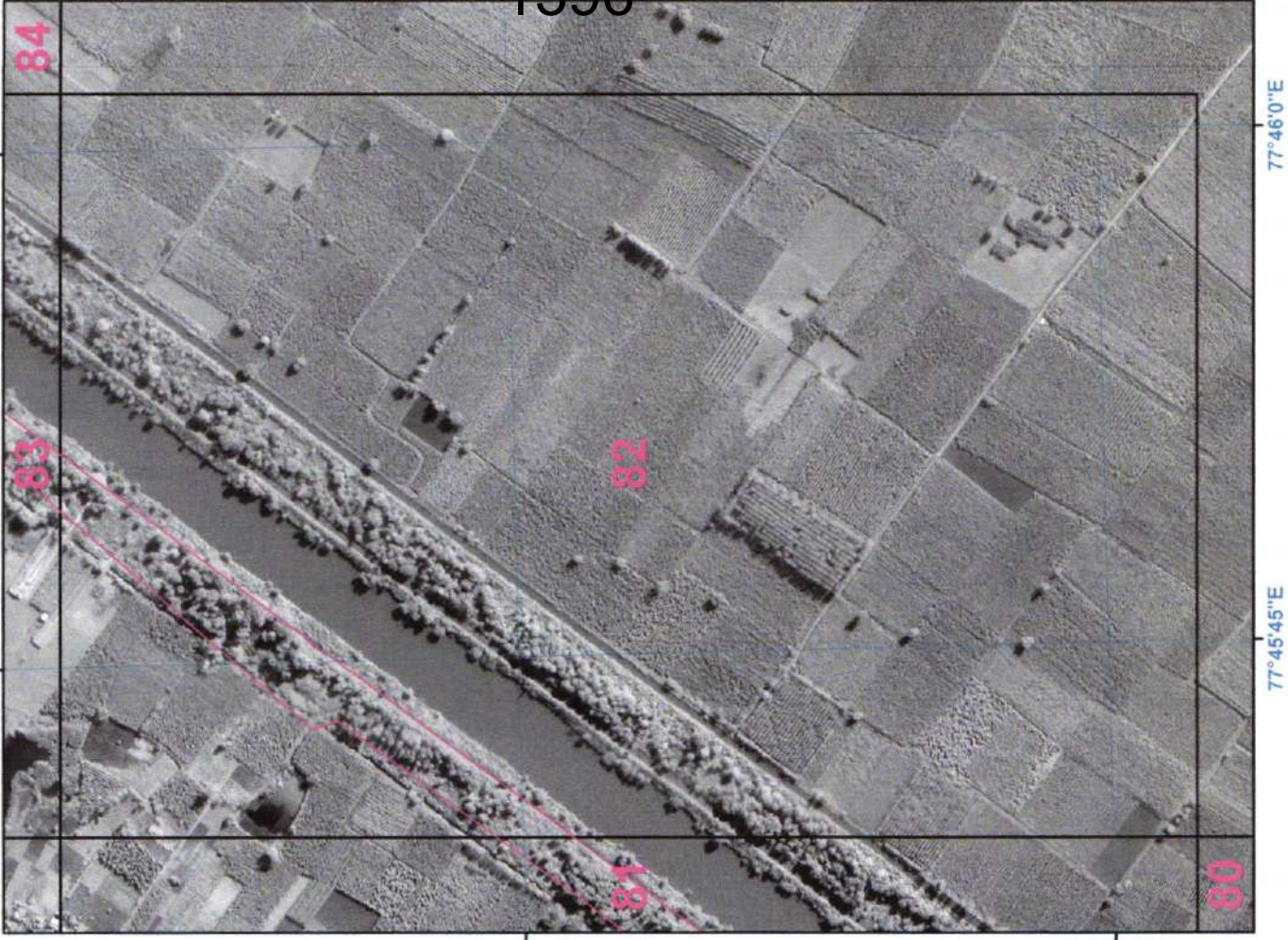
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Satellite Images from NRSC of 2023 AREA 12_06




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1396

99

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AREA_12_07

77°45'45"E

77°46'0"E



29°20'0"N

1397

29°19'45"N

100

SURVEY OF INDIA

Drone Images Oct 2024

77°46'0"E

77°46'15"E



77°46'0"E

77°46'15"E



Satellite Images from NRSC of 2023 AREA_12_08

29°19'45"N

29°19'45"N

29°20'0"N

1398

29°19'45"N

29°19'45"N

29°19'45"N

77°46'0"E

77°46'15"E

77°46'0"E

77°46'15"E

101

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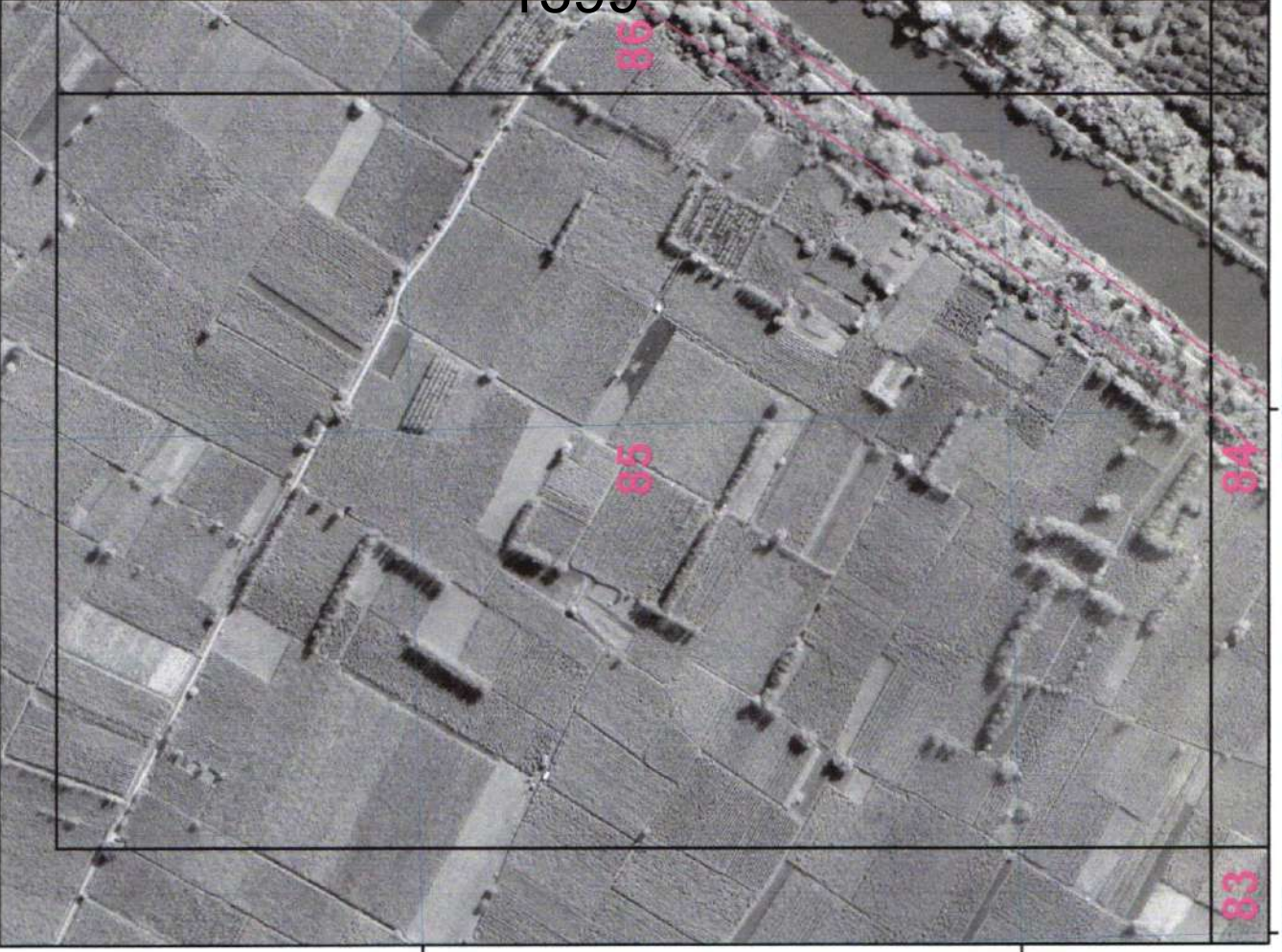
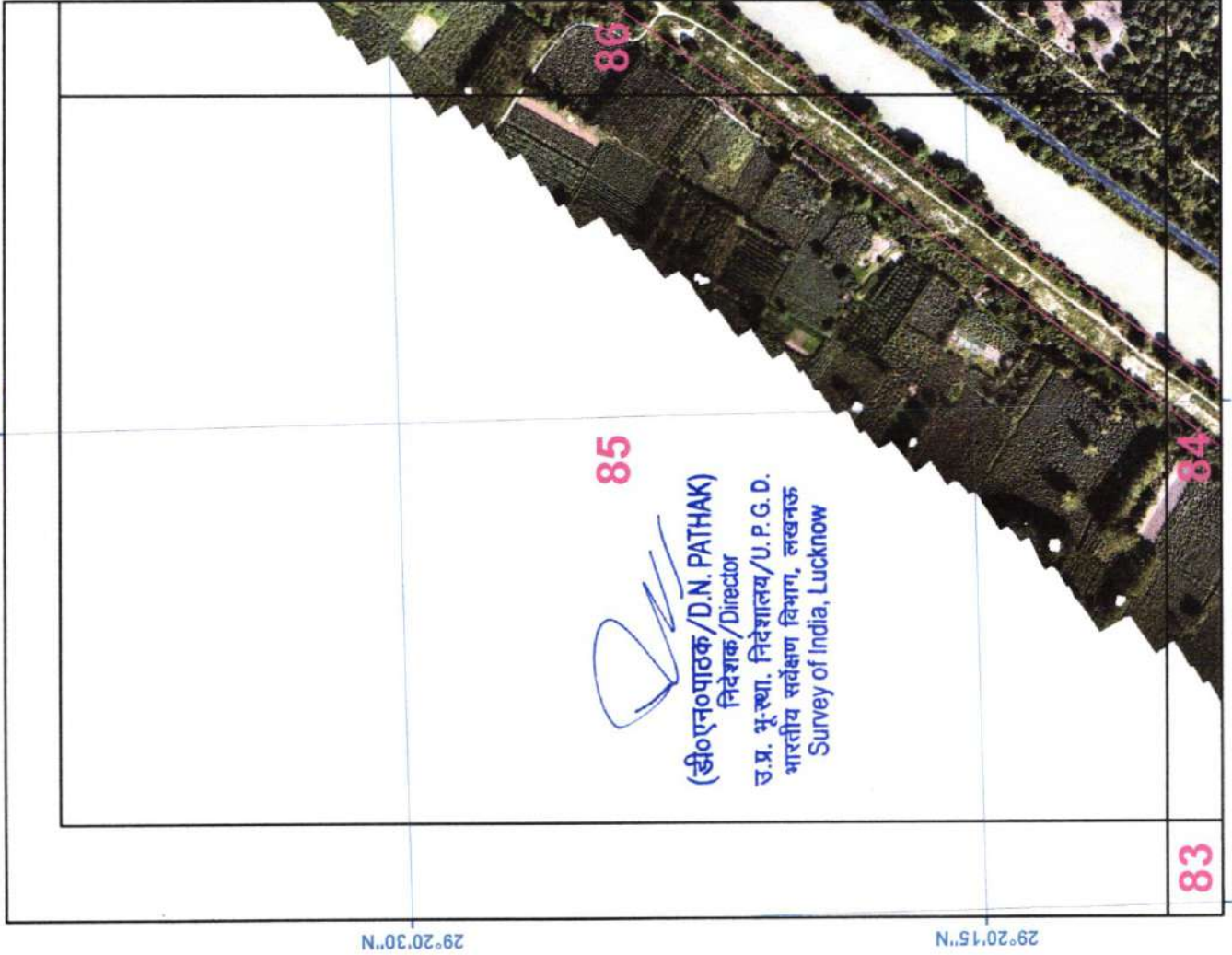
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Satellite Images from NRSC of 2023

AREA_12_09

77°46'15"E

77°46'15"E



1399

29°20'30"N

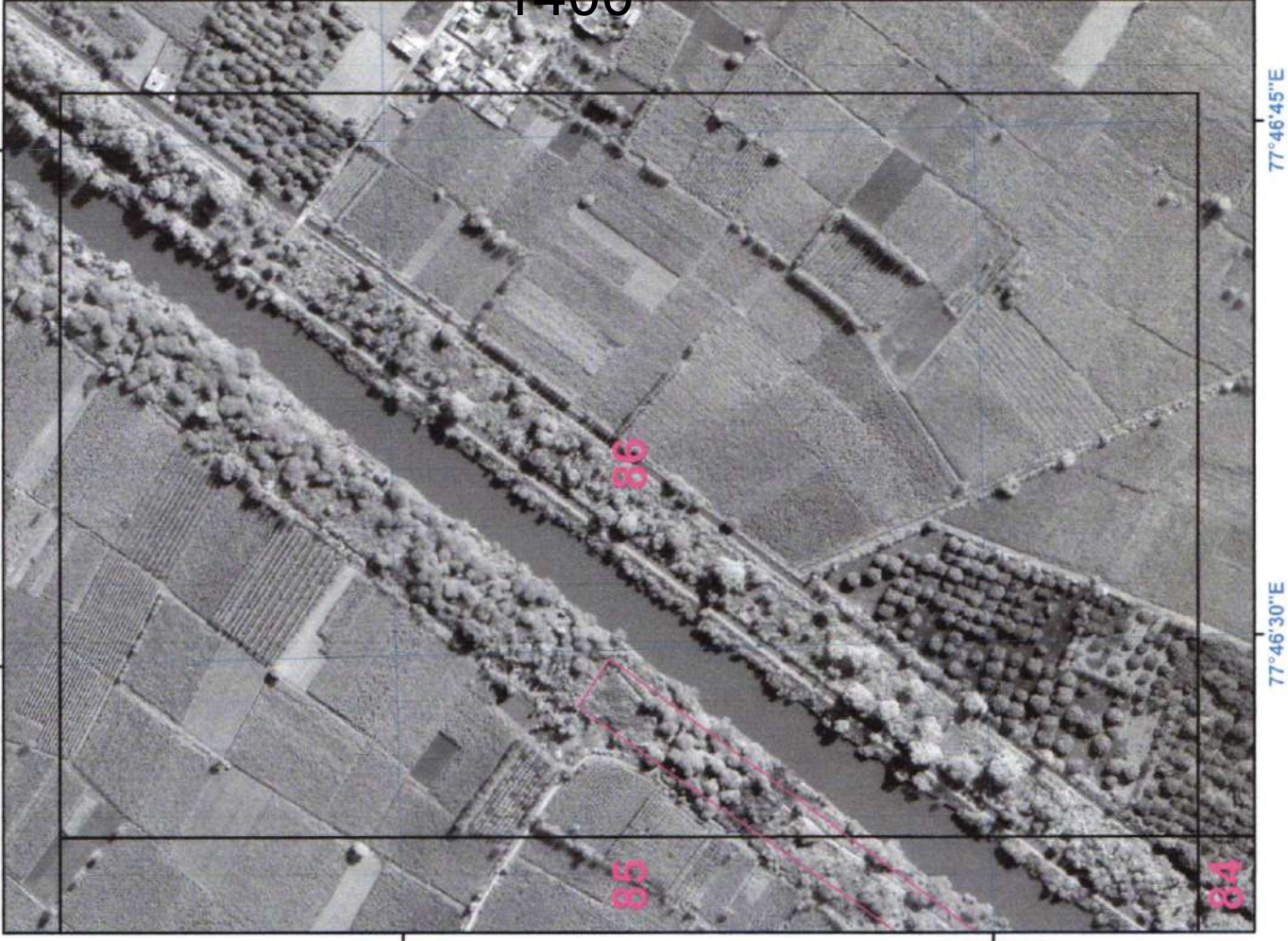
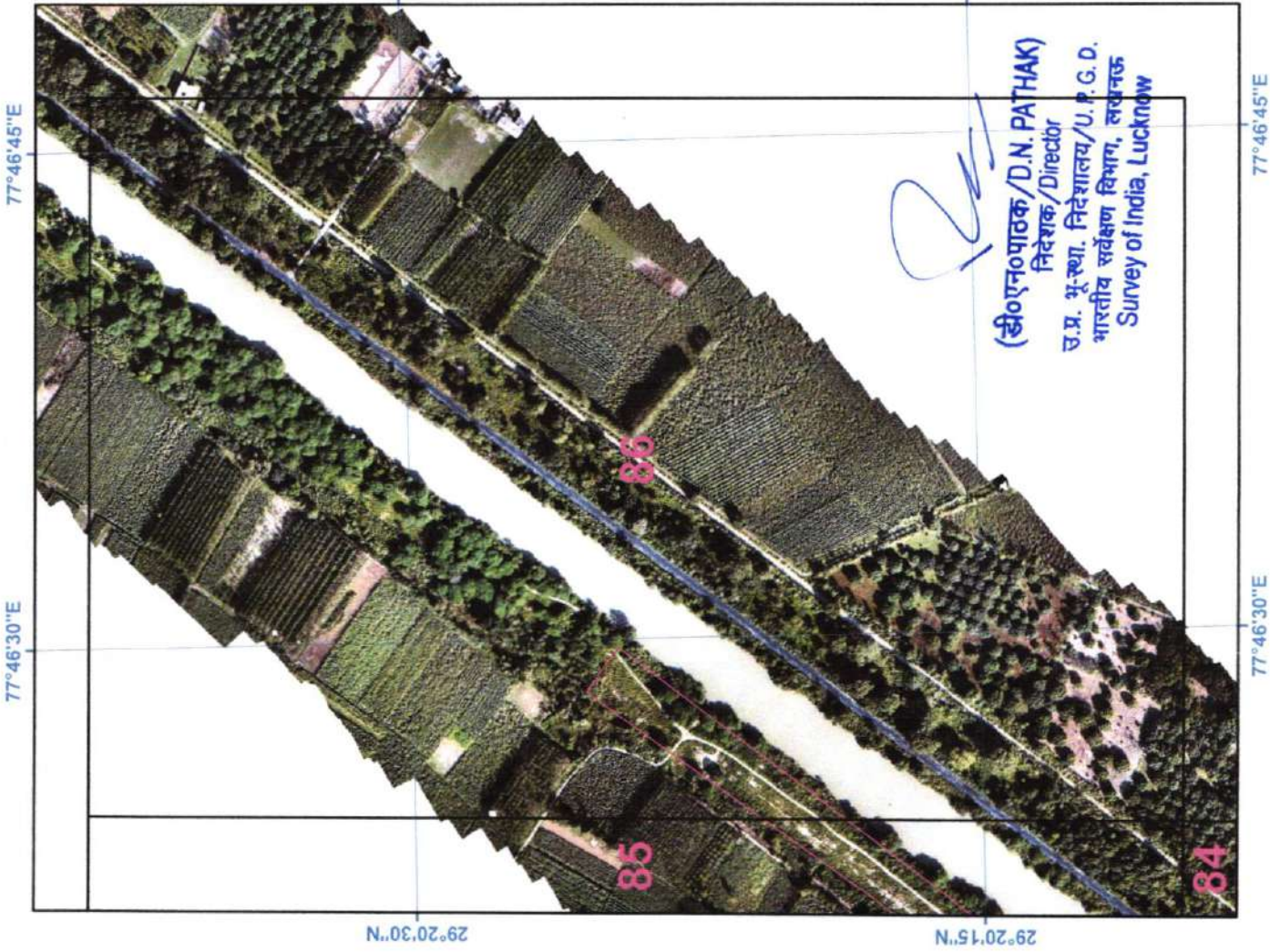
29°20'15"N

102

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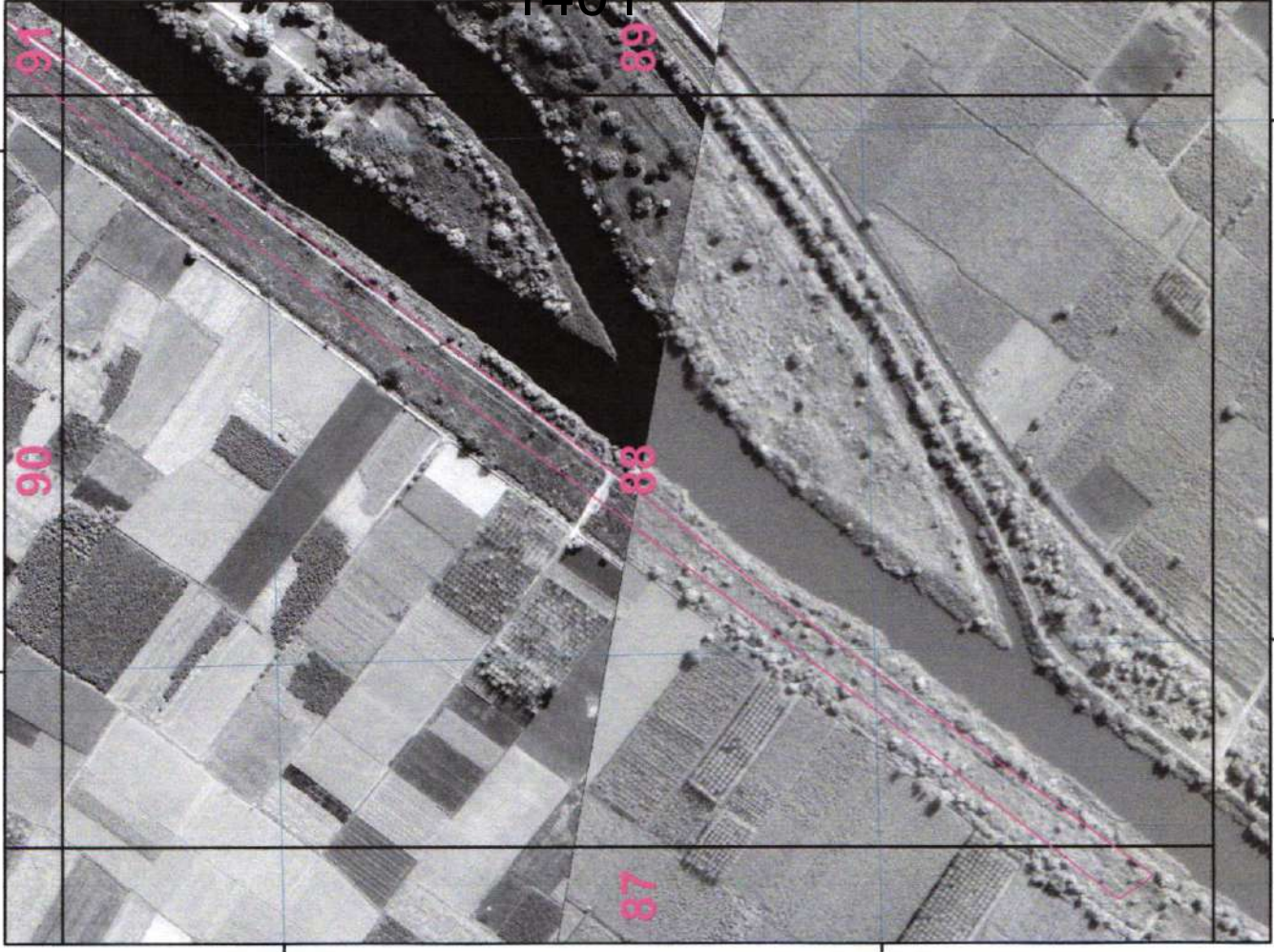
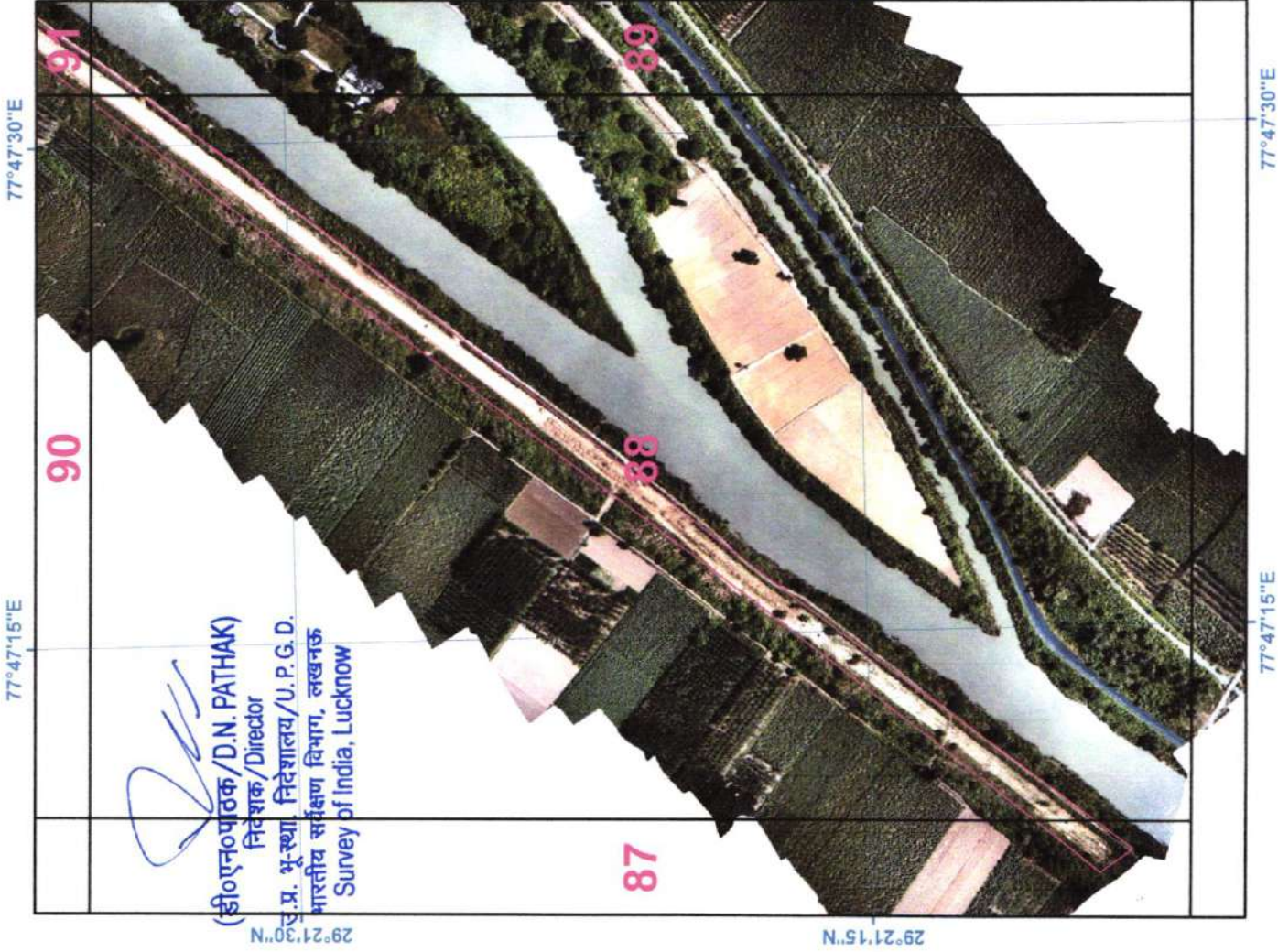
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103

SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA 13_01



1401

104

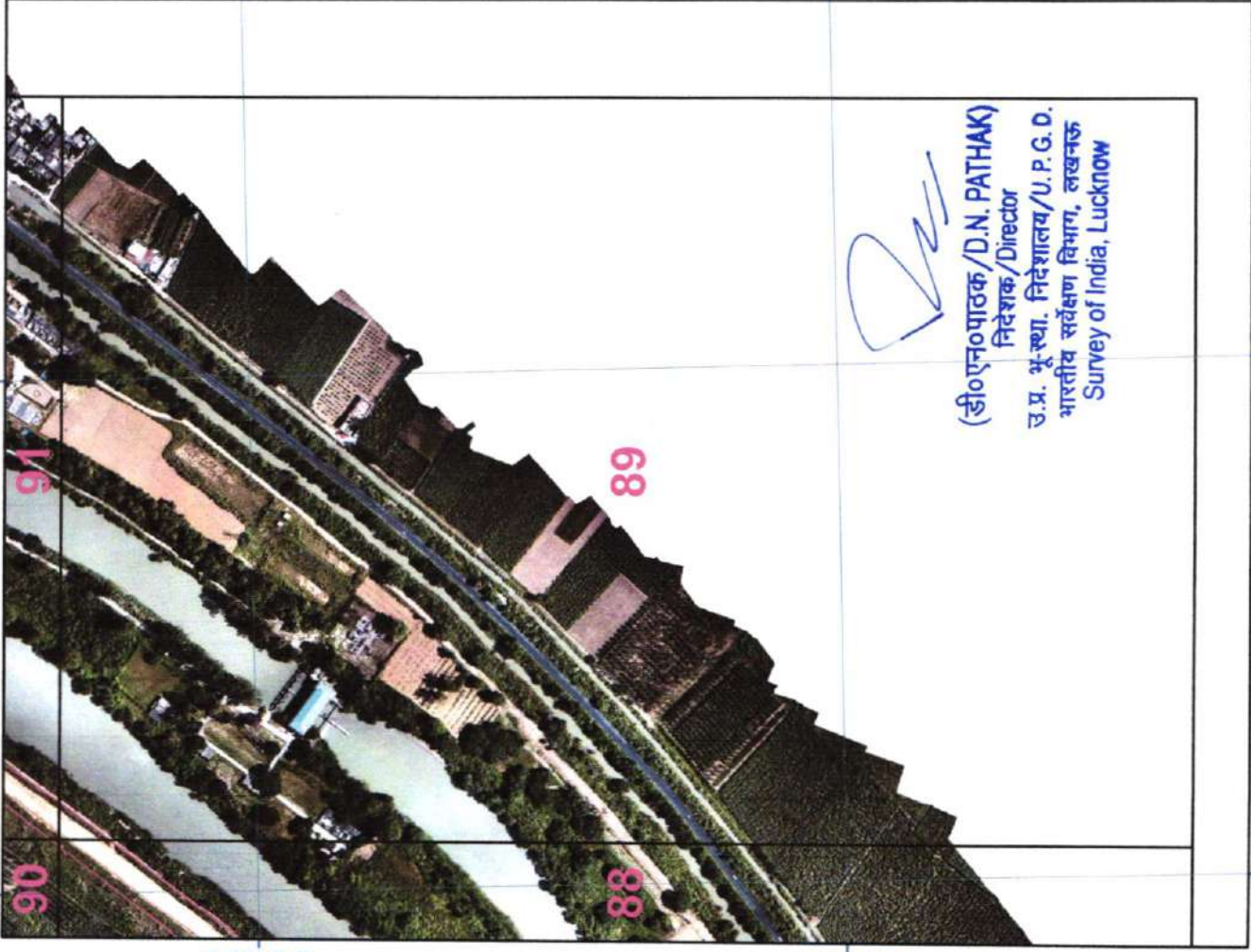
SURVEY OF INDIA


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Satellite Images from NRSC of 2023 AREA_13_02

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77°47'45"E



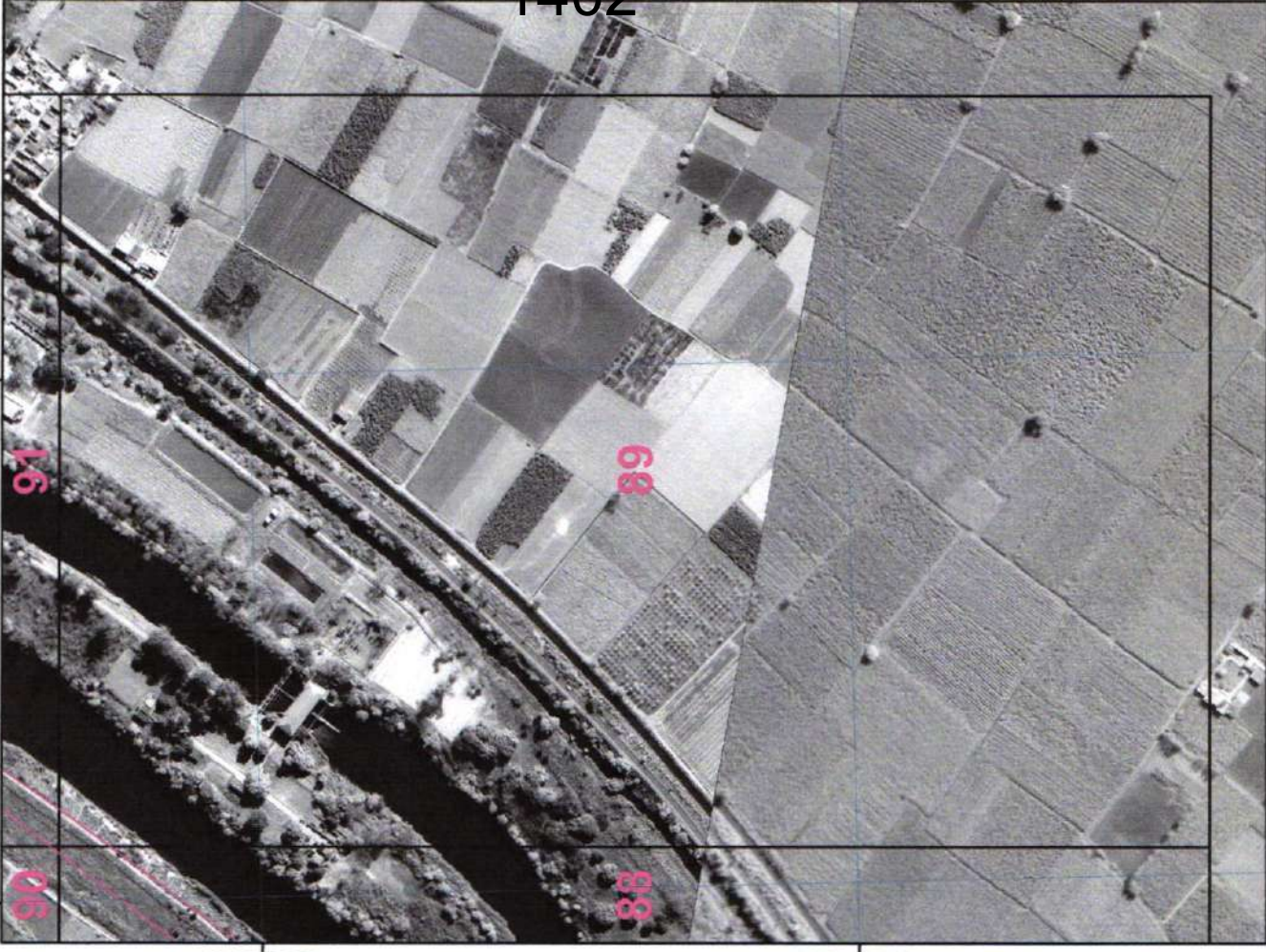

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77°47'30"E

77°47'45"E

77°47'30"E

77°47'45"E



29°21'30"N

29°21'30"N

29°21'15"N

29°21'15"N

77°47'30"E

77°47'45"E

1402

105

SURVEY OF INDIA

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Satellite Images from NRSC of 2023 AREA_13_03

77°47'30"E

77°47'45"E

29°22'0"N

29°22'0"N


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90

91

88

89

77°47'30"E

77°47'45"E

1403

29°22'0"N

29°21'45"N

106

77°47'30"E

77°47'45"E

29°22'0"N

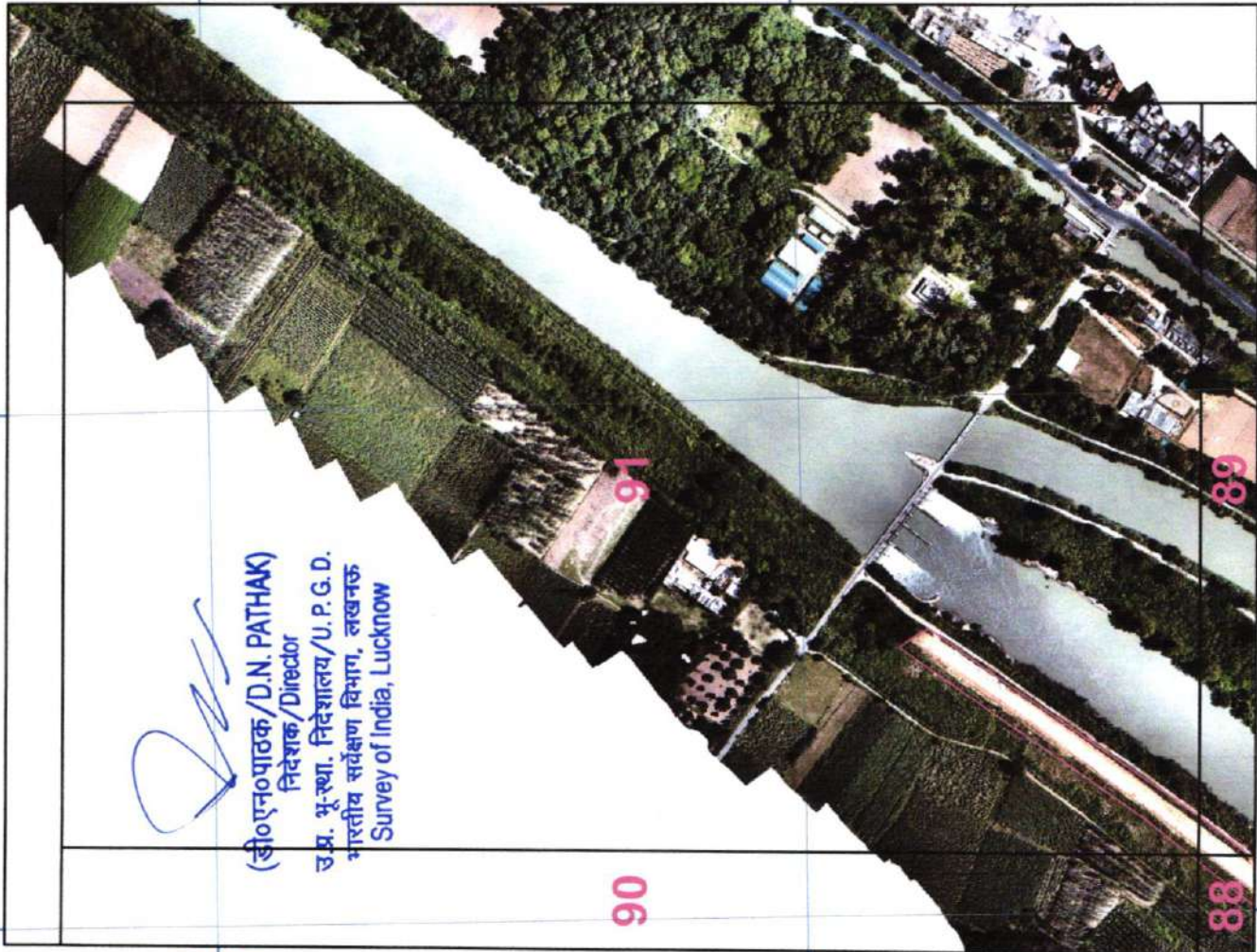
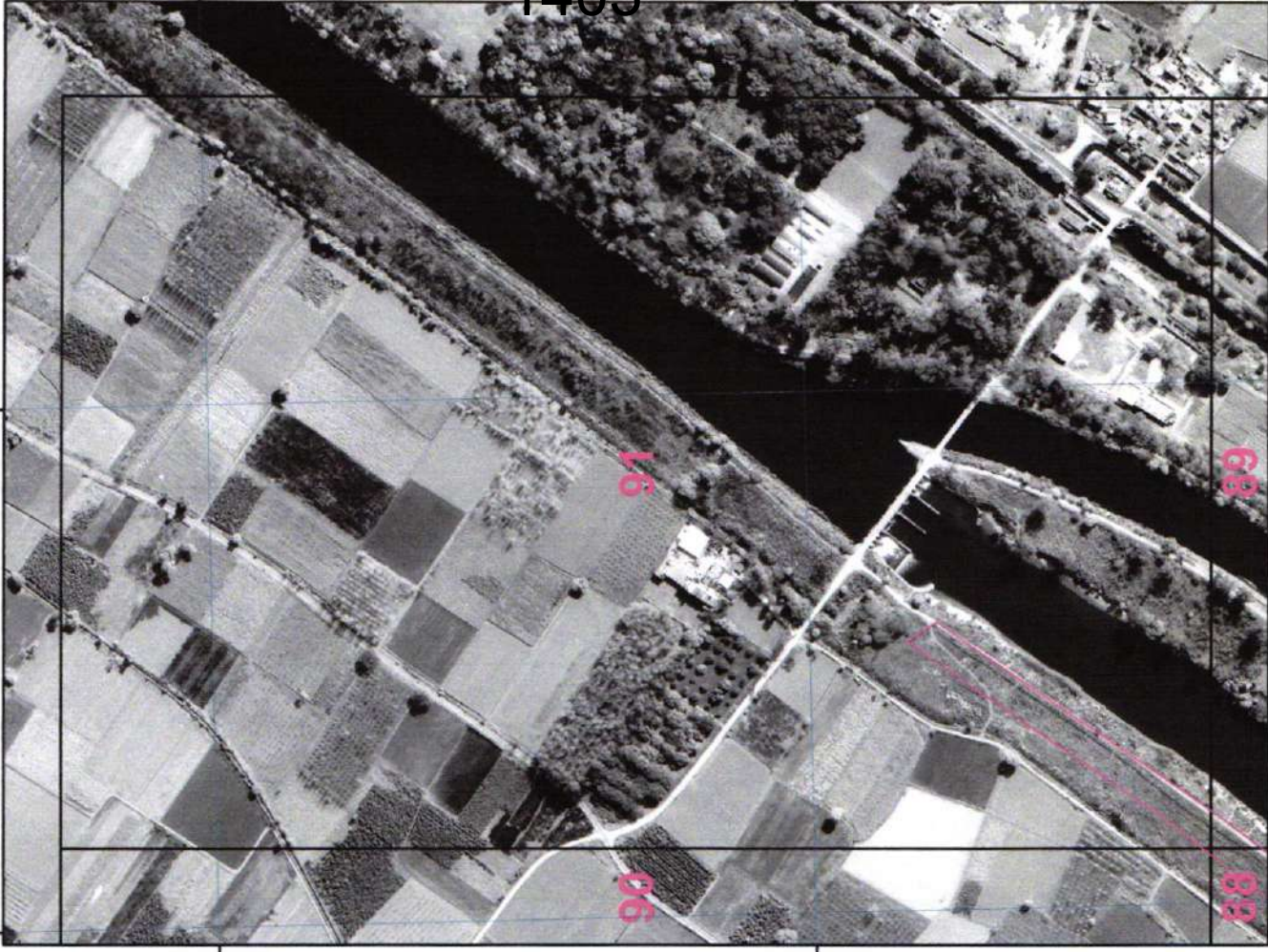
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29°21'45"N

29°21'45"N

77°47'30"E

77°47'45"E



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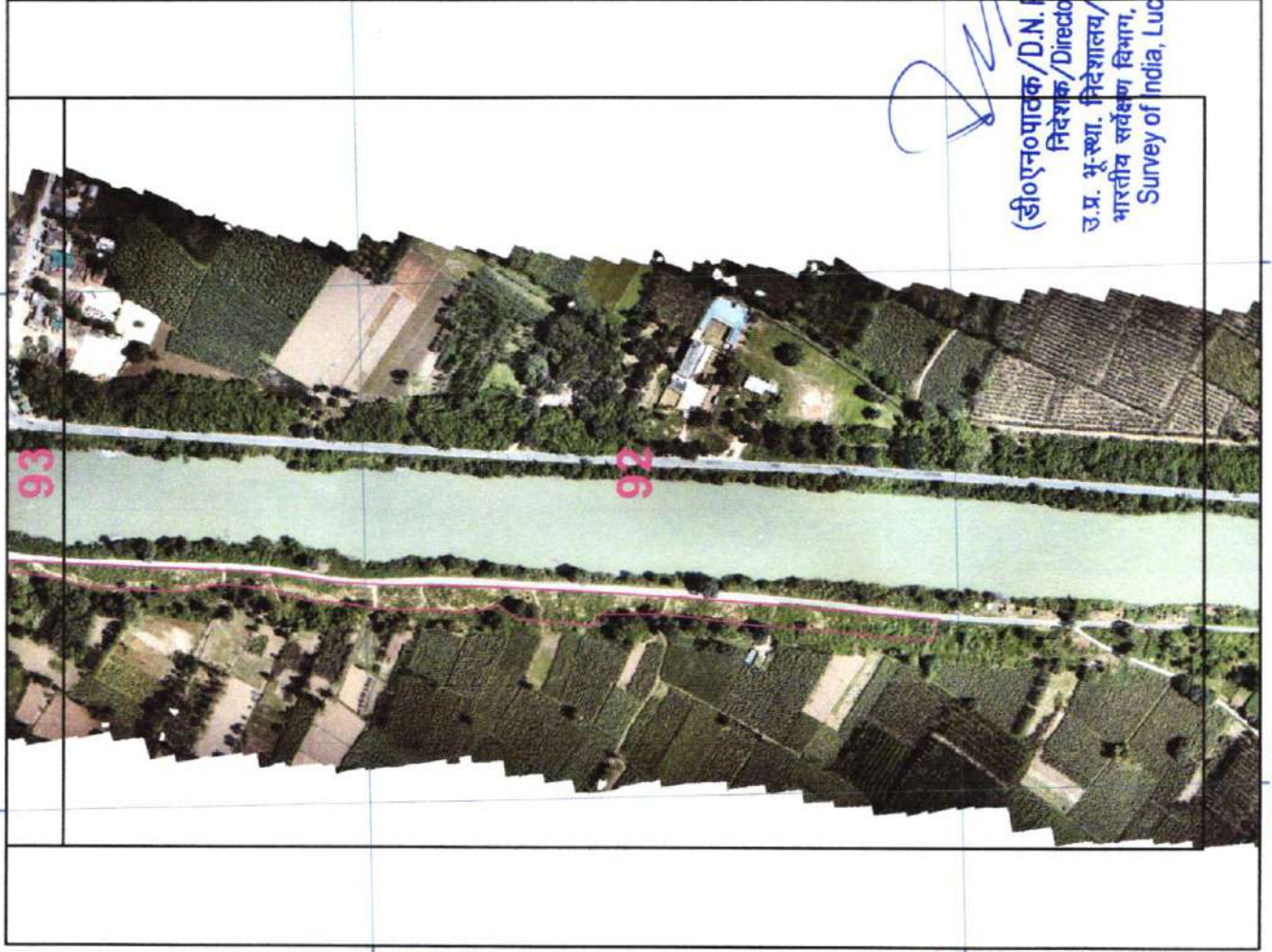
Satellite Images from NRSC of 2023 AREA_14_01

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77°52'45"E

77°52'30"E

77°52'45"E



29°30'30"N

29°30'30"N

29°30'15"N

29°30'15"N

1404

107

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77°52'30"E

77°52'45"E

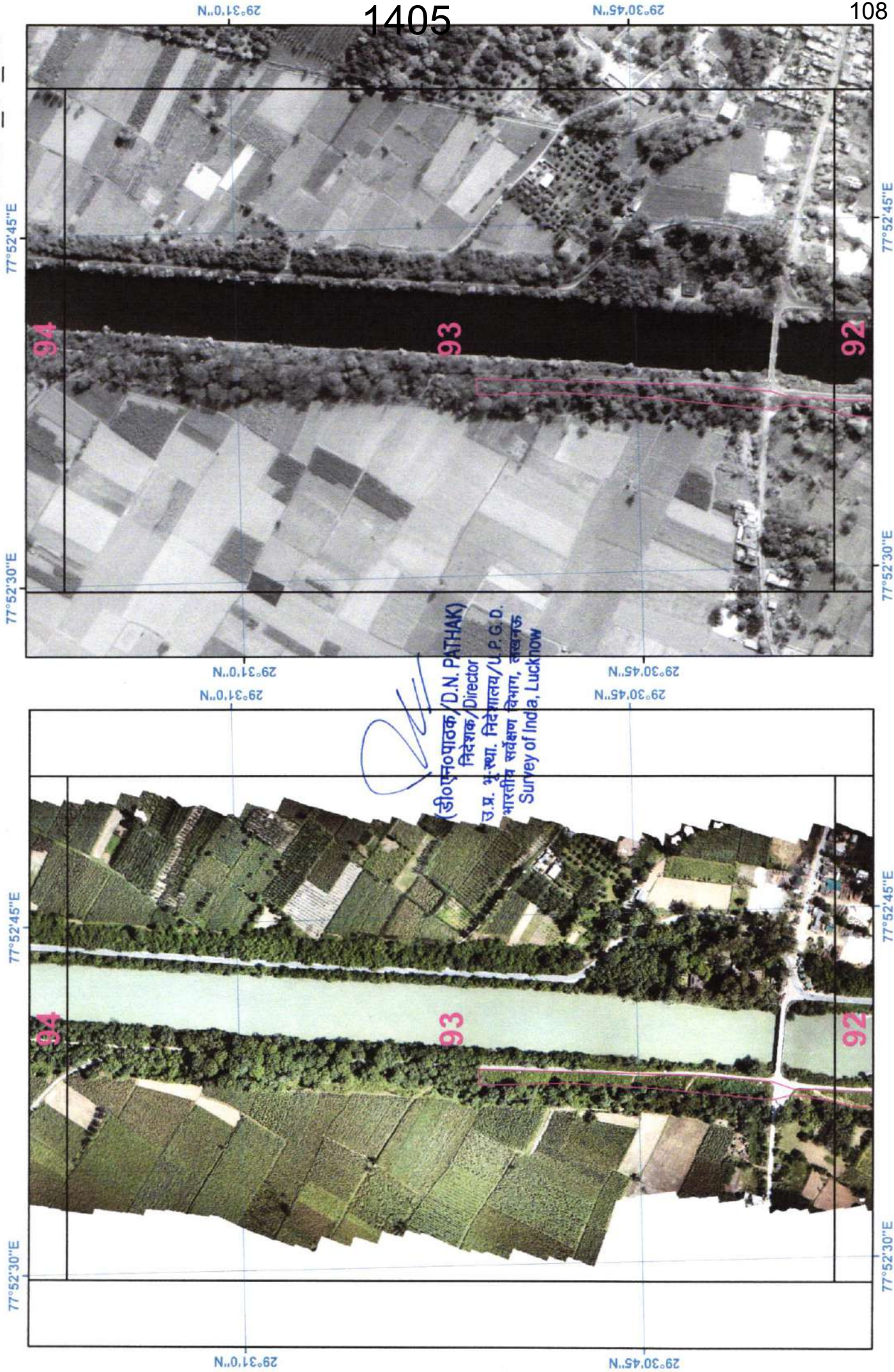
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77°52'45"E

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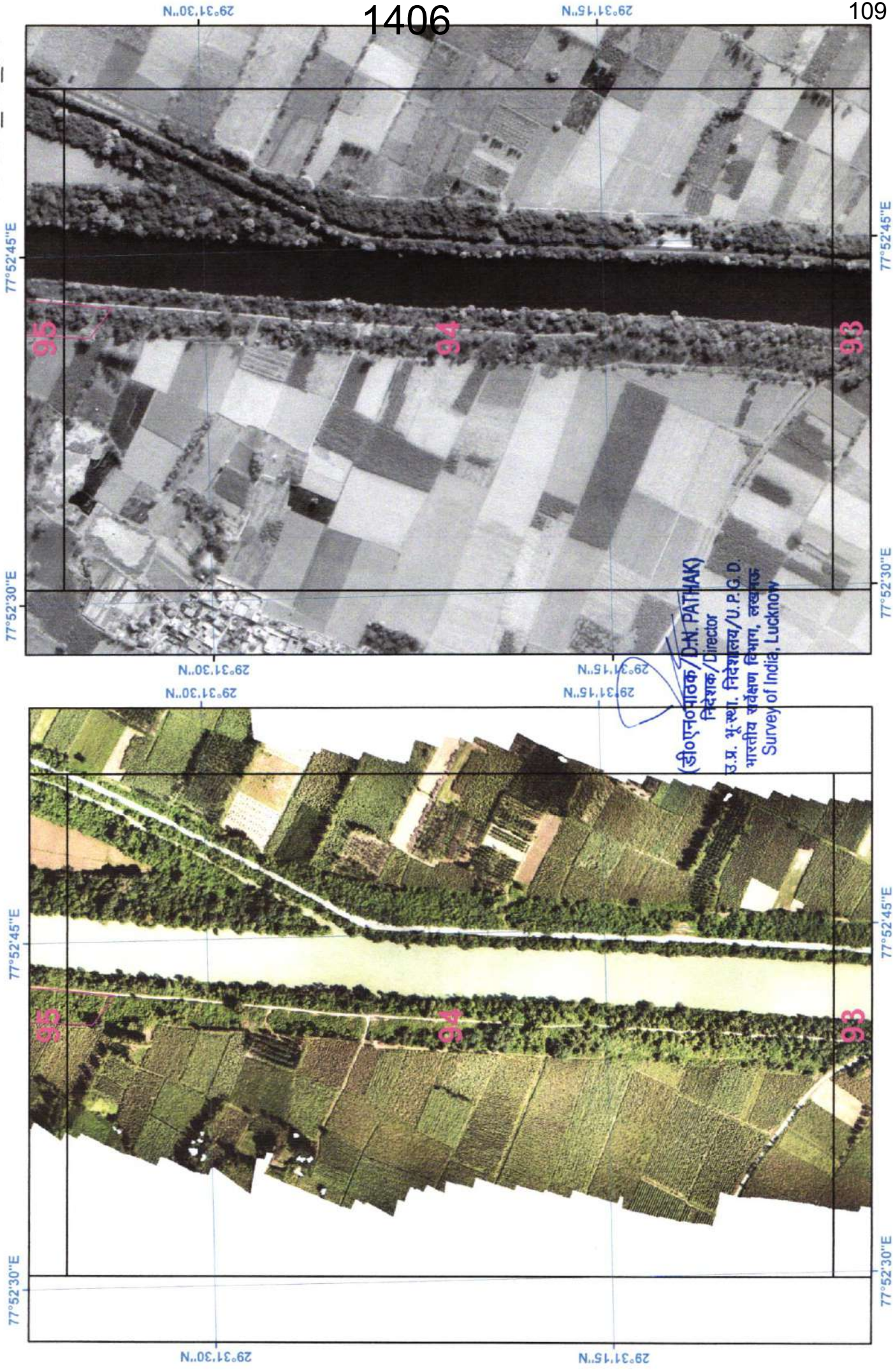
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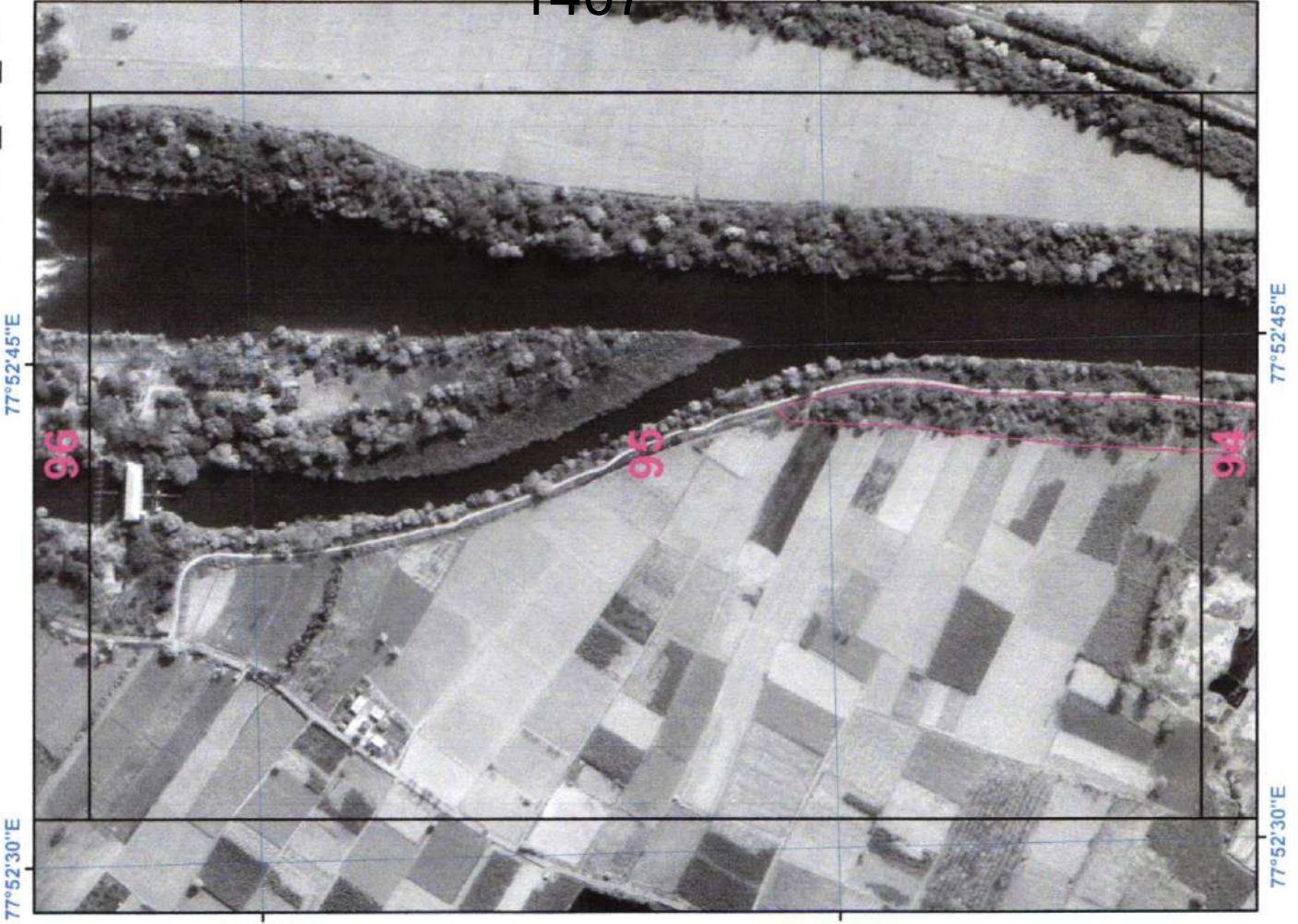
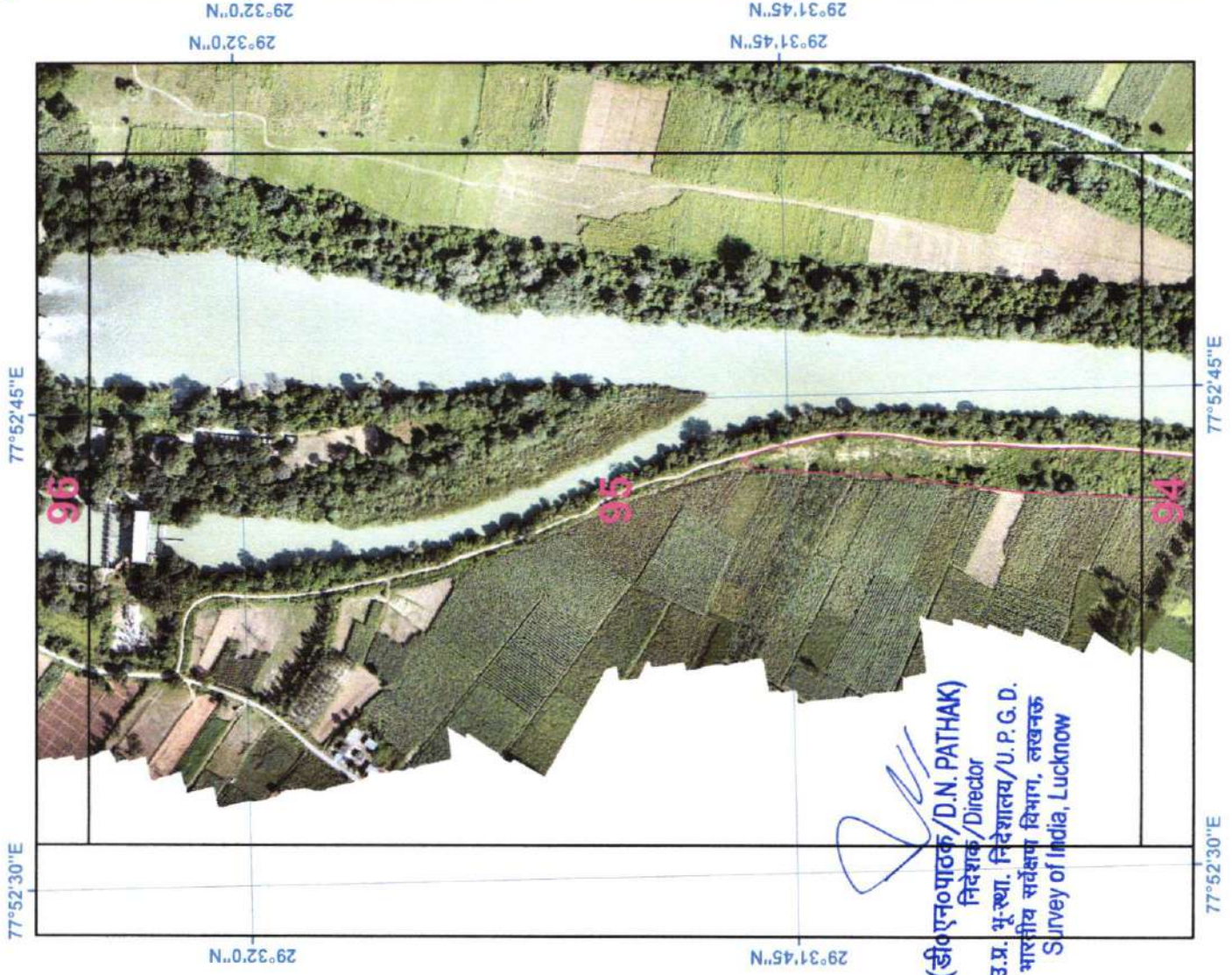
Satellite Images from NRSC of 2023 AREA_15_01



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Satellite Images from NRSC of 2023 AREA_15_02



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Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_16_01

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77°52'45"E

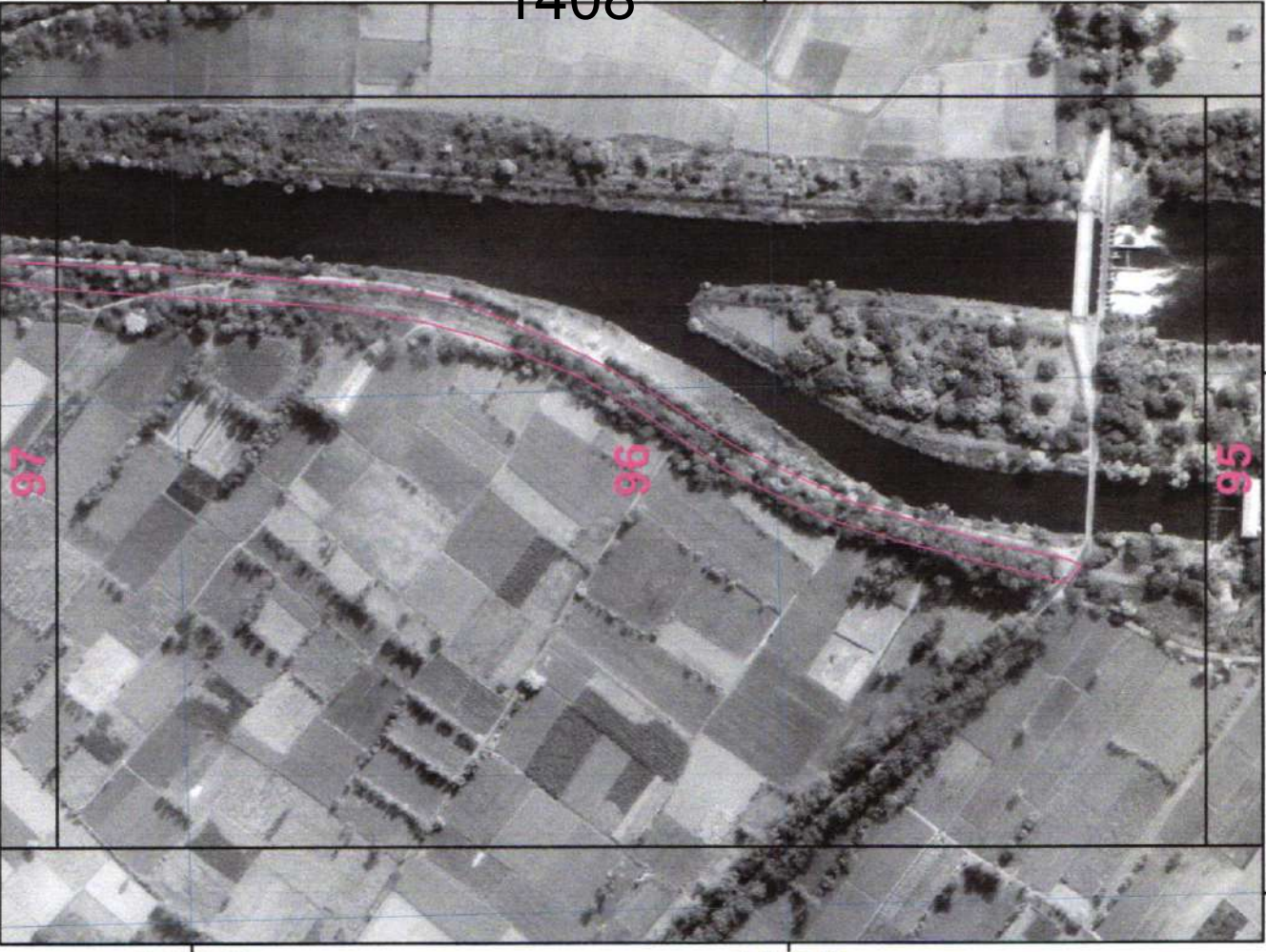
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77°52'45"E

29°32'30"N

29°32'30"N

29°32'30"N




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1408

77°52'30"E

77°52'45"E

77°52'30"E

77°52'45"E

29°32'15"N

29°32'15"N

29°32'15"N

95

96

97

77°52'30"E

77°52'45"E

77°52'30"E

77°52'45"E

29°32'30"N

111

SURVEY OF INDIA

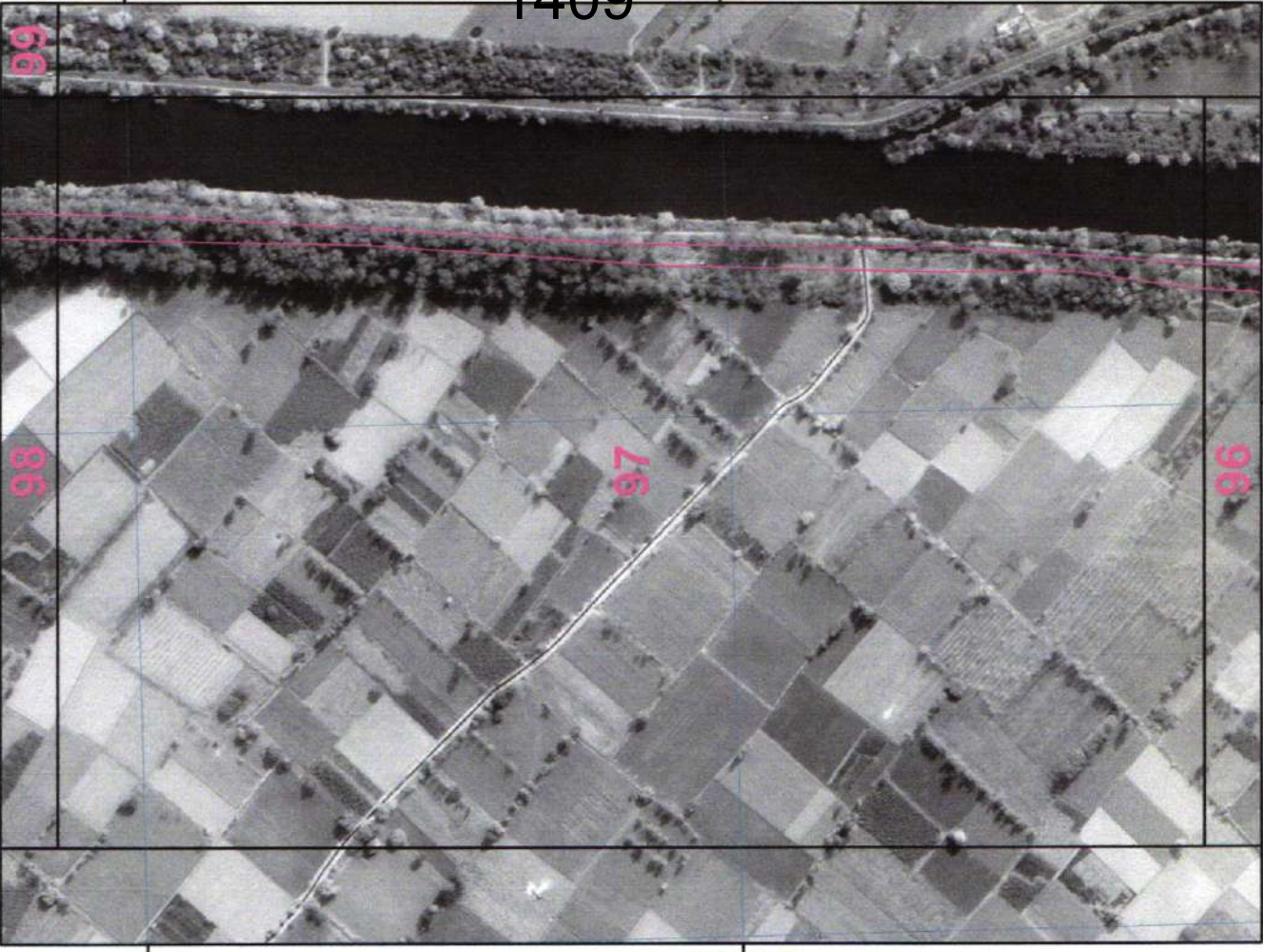
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Satellite Images from NRSC of 2023

AREA_16_02

77°52'45"E

77°52'45"E



29°33'0"N

29°33'0"N

98

99

97

97

96

96

29°33'0"N

29°33'0"N

29°32'45"N

29°32'45"N

1409

77°52'30"E

77°52'45"E

77°52'30"E

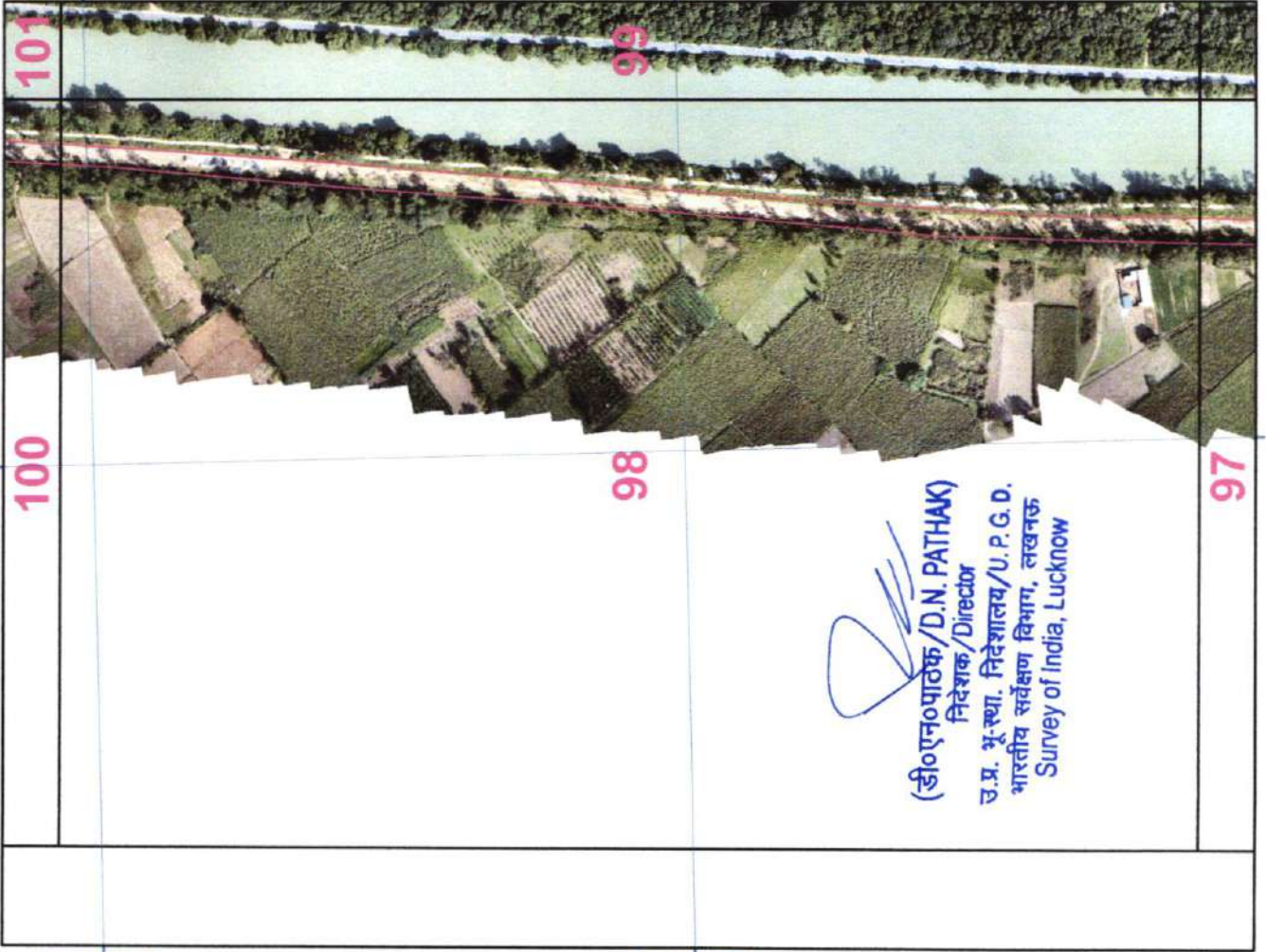
77°52'45"E

112

SURVEY OF INDIA

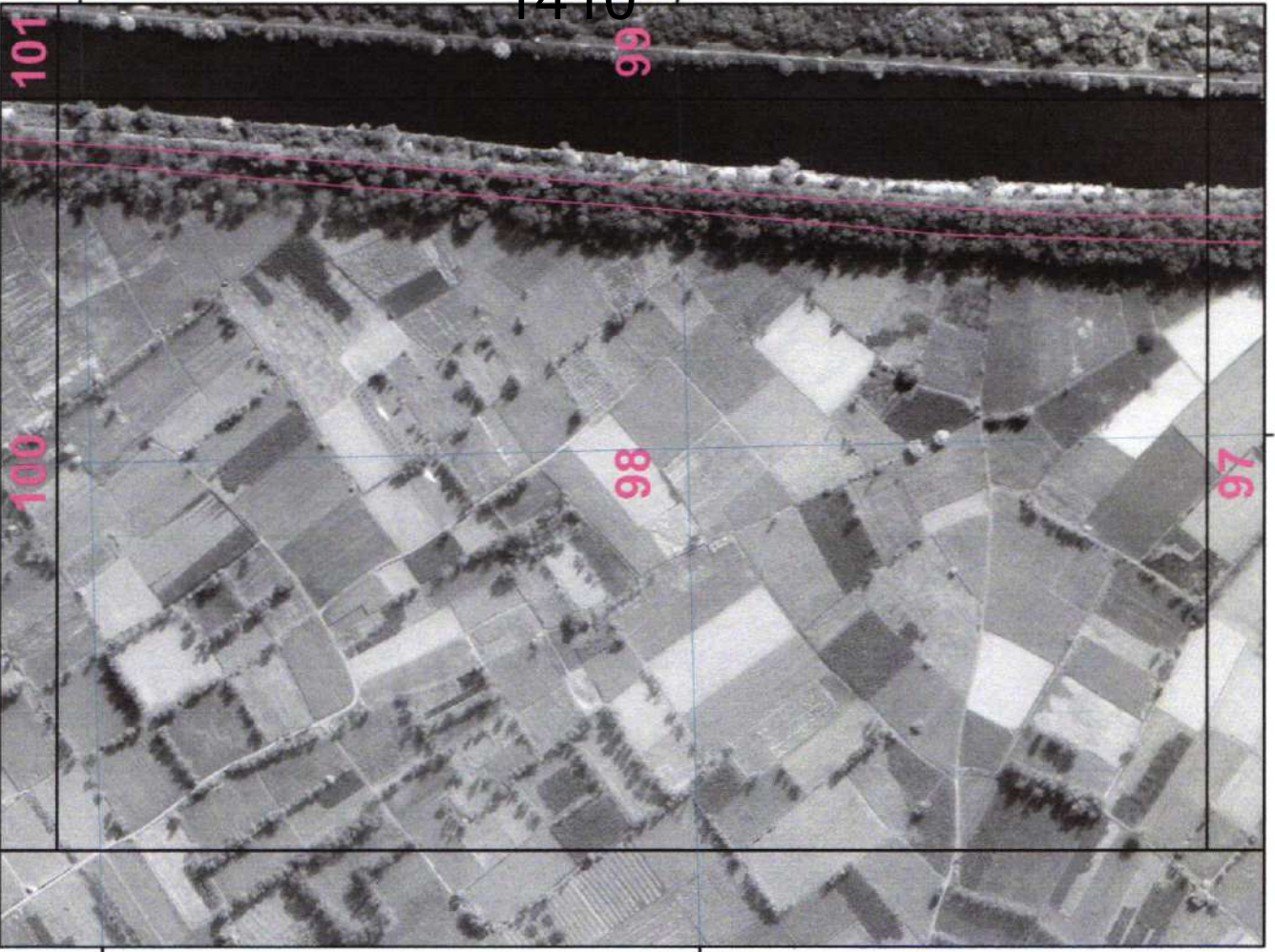
Drone Images Oct 2024

77°52'45"E



Satellite Images from NRSC of 2023

77°52'45"E



AREA_16_03

1410

113

SURVEY OF INDIA

Drone Images Oct 2024

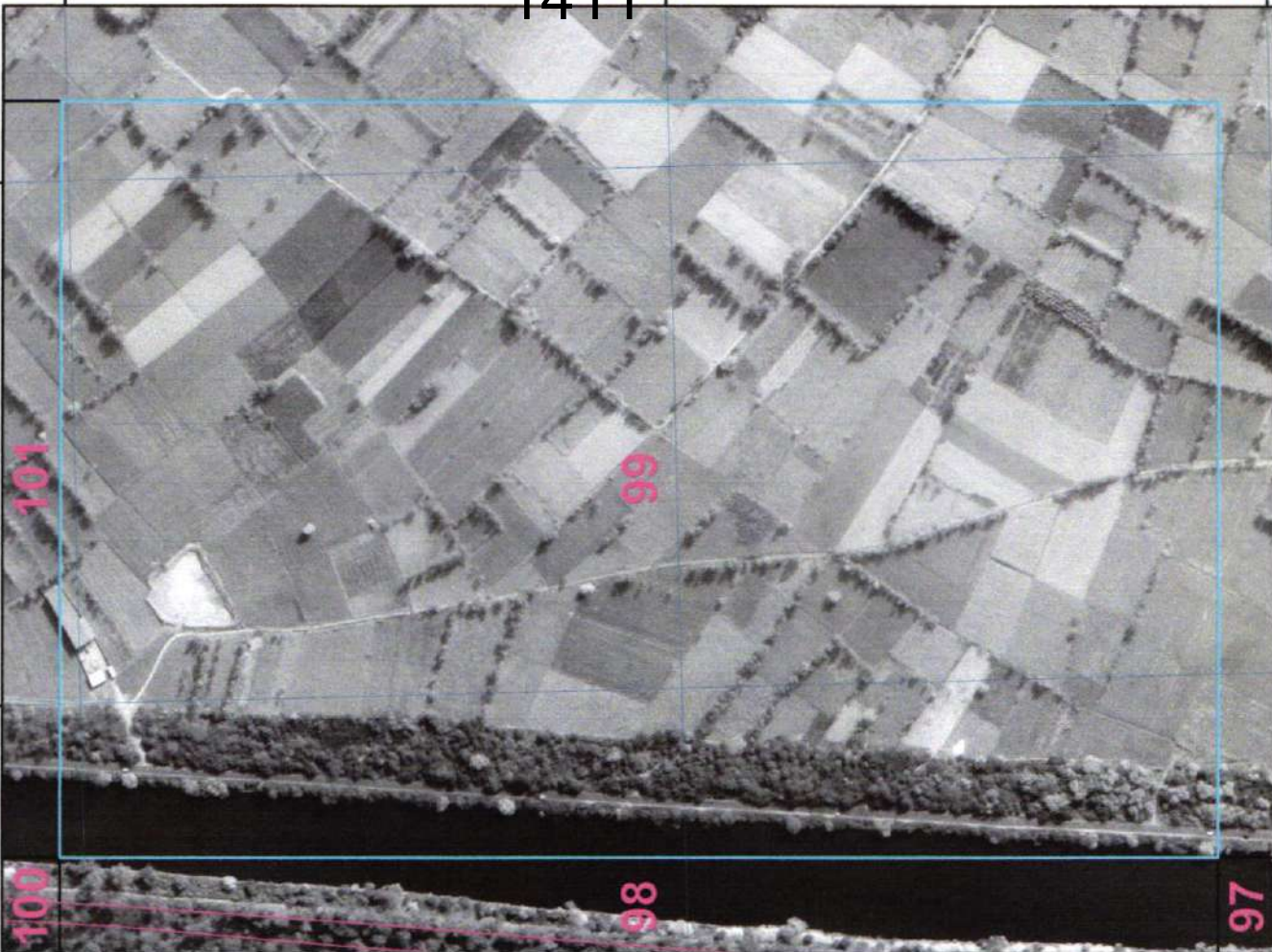
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AREA_16_04


77°53'0"E 77°53'15"E
29°33'30"N 29°33'15"N



77°53'0"E 77°53'15"E
29°33'30"N 29°33'15"N



77°53'0"E 77°53'15"E
29°33'30"N 29°33'15"N


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1411

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Satellite Images from NRSC of 2023 AREA_16_05

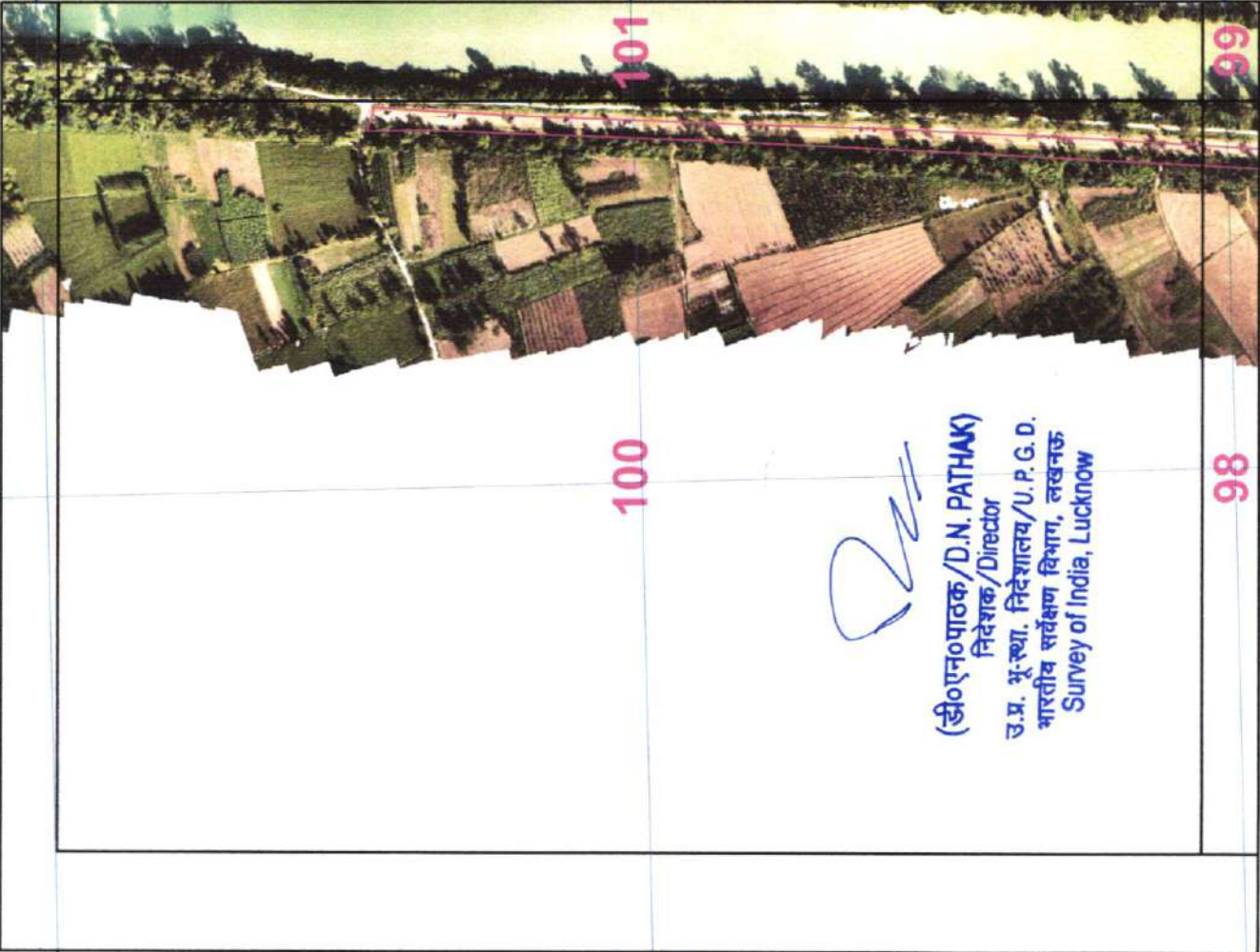
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29°33'30"N

29°34'0"N

29°33'45"N

29°34'0"N



100

101

98

99

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29°33'30"N

29°33'30"N

29°33'45"N

29°33'45"N

29°33'30"N

29°34'0"N

Drone Images Oct 2024

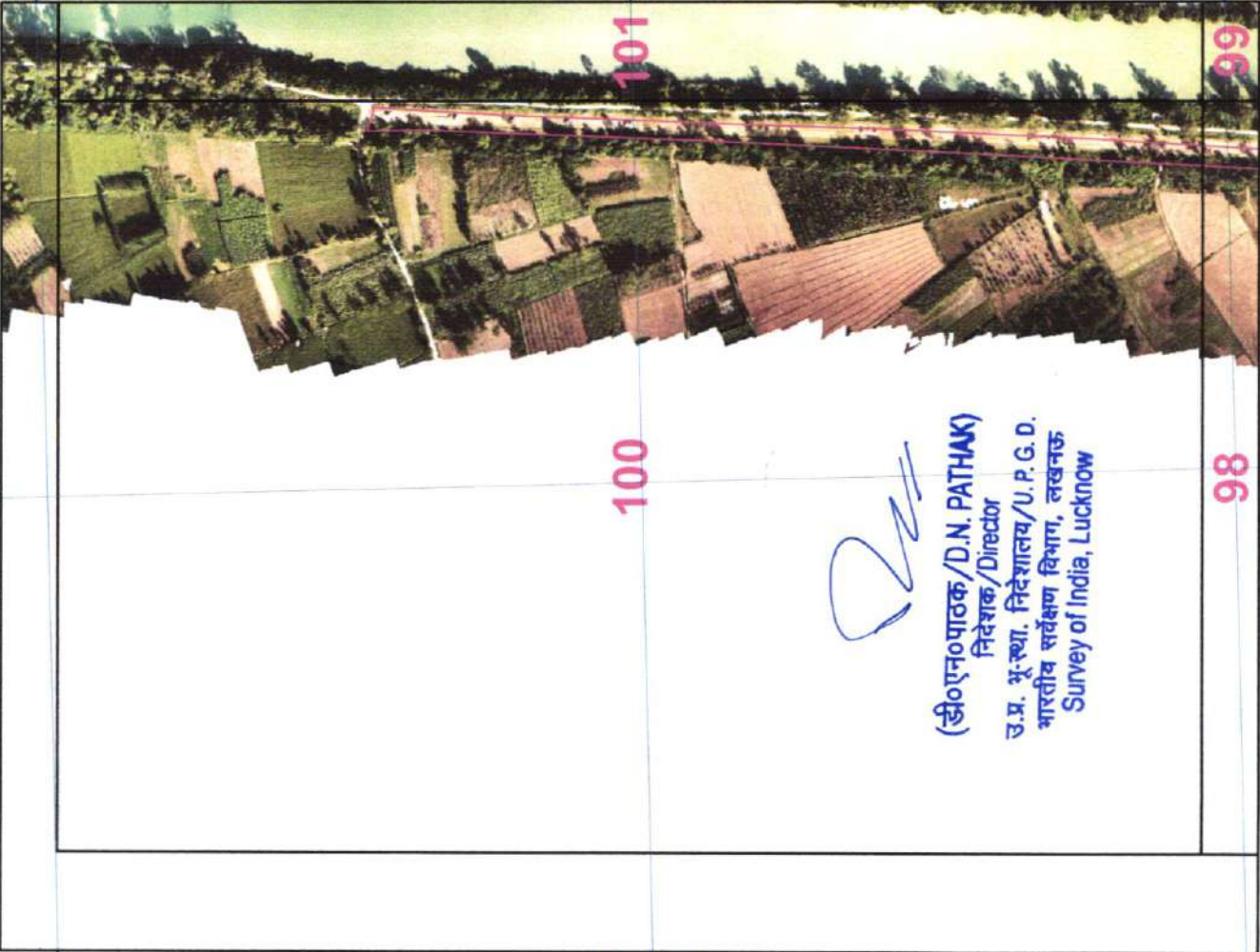
Satellite Images from NRSC of 2023 AREA_16_05

77°52'45"E

29°34'0"N

29°33'45"N

29°34'0"N



100

101

98

99

77°52'45"E

29°33'30"N

29°33'30"N

29°33'45"N

29°33'45"N

29°33'30"N

29°34'0"N

1412

SURVEY OF INDIA

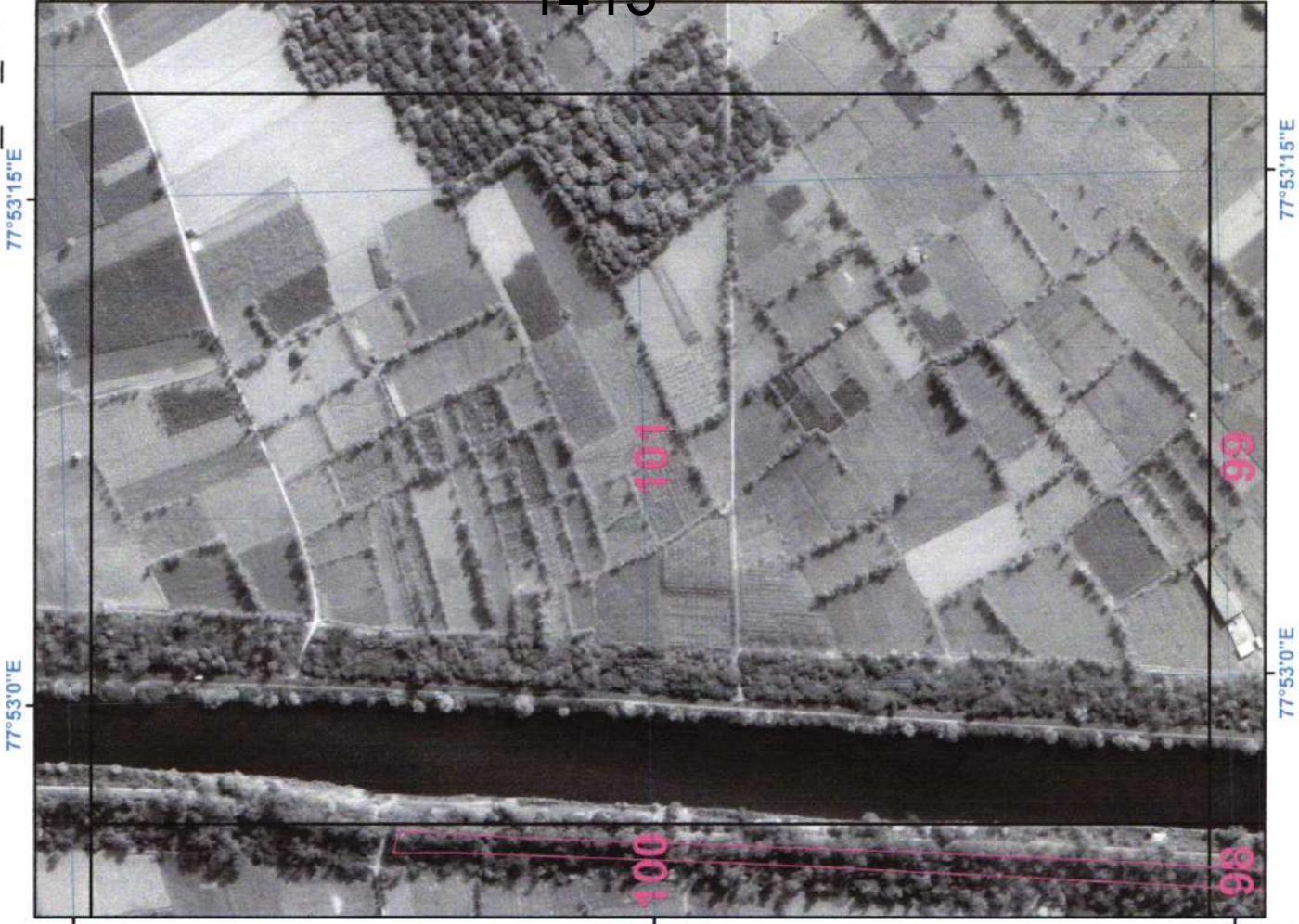
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AREA_16_06



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1413

29°33'30"N 116

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Satellite Images from NRSC of 2023 AREA 17_01



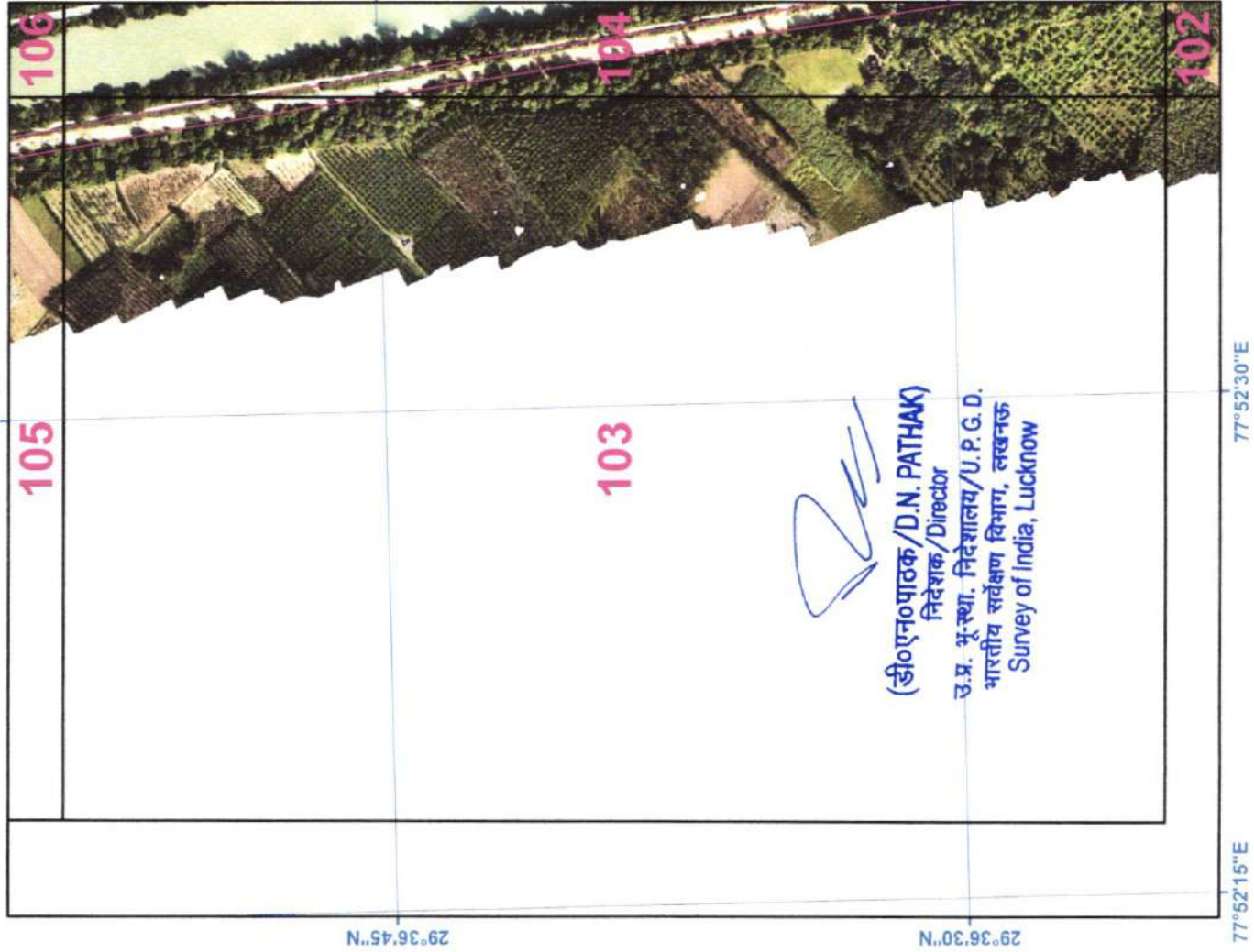
(डी०एन०पठक / D.N. PATHAK)
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उ.प्र. भू-स्थ. निदेशालय / U.P.G.D.
भारतीय सर्वेक्षण विभाग, लखनऊ
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77°52'30"E

Satellite Images from NRSC of 2023
77°52'30"E AREA_17_02

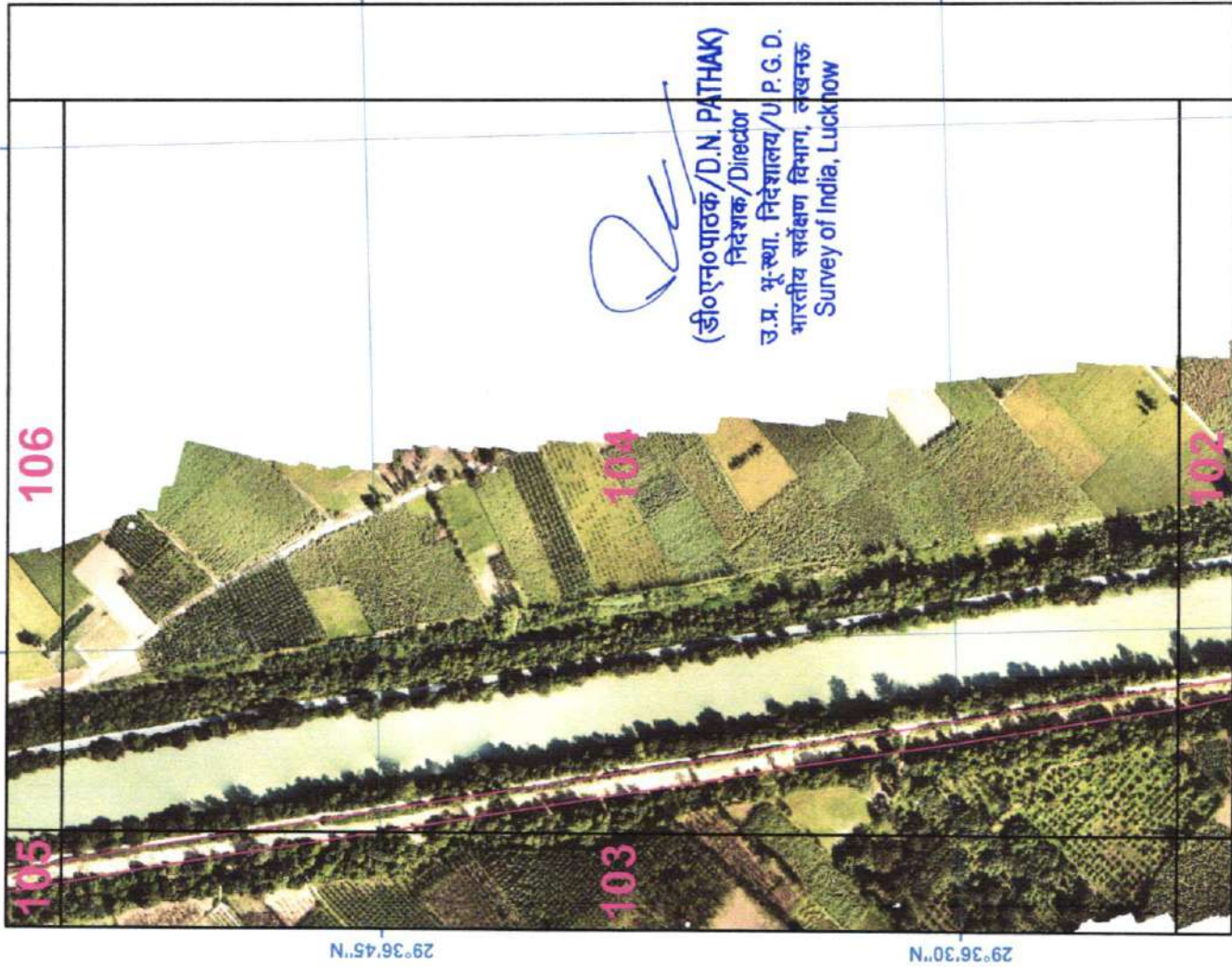


SURVEY OF INDIA

Drone Images Oct 2024

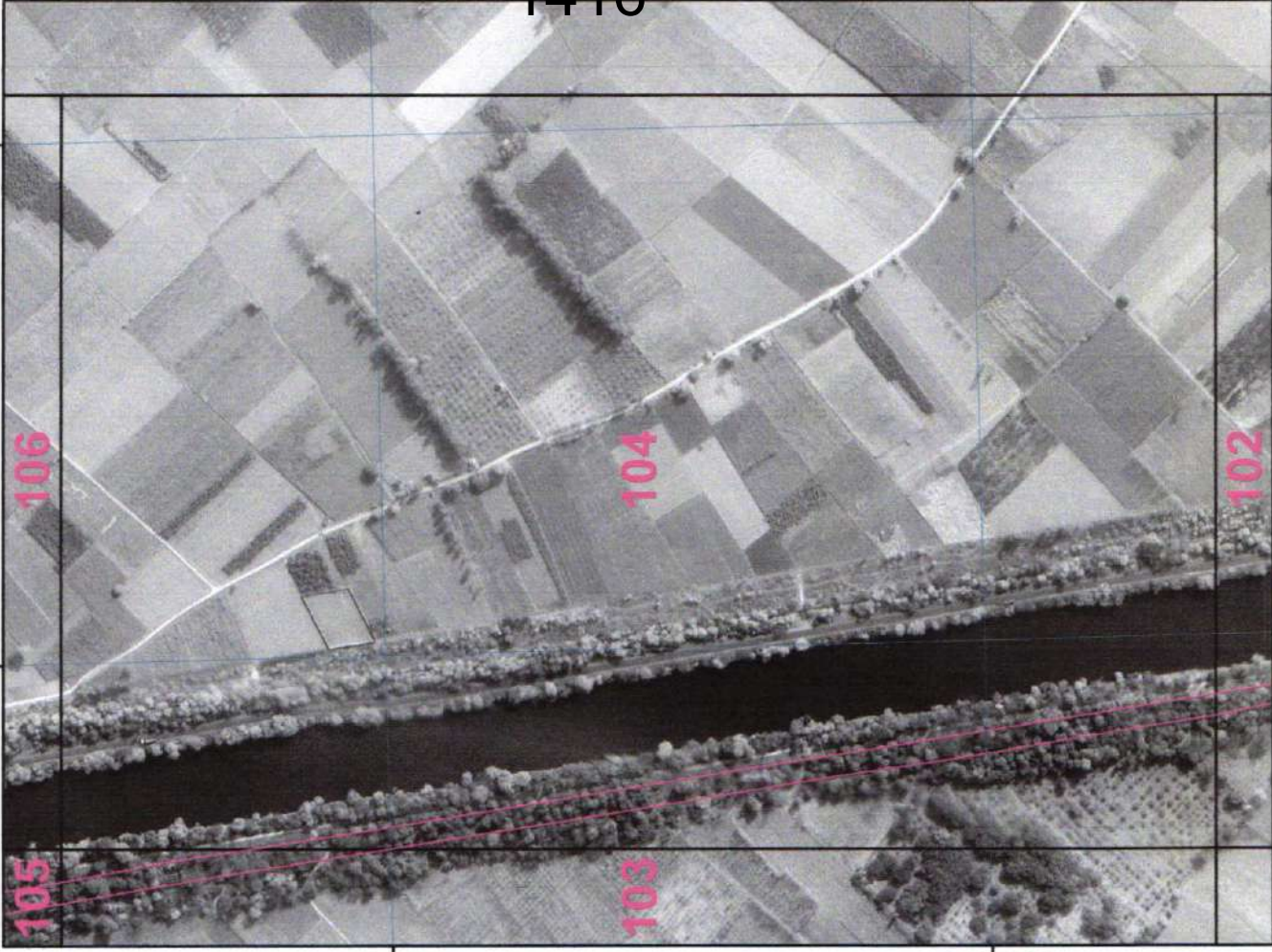
Satellite Images from NRSC of 2023 AREA 17_03

77°52'45"E 77°53'0"E



77°52'45"E

77°53'0"E



77°52'45"E

77°53'0"E

1416

119

SURVEY OF INDIA

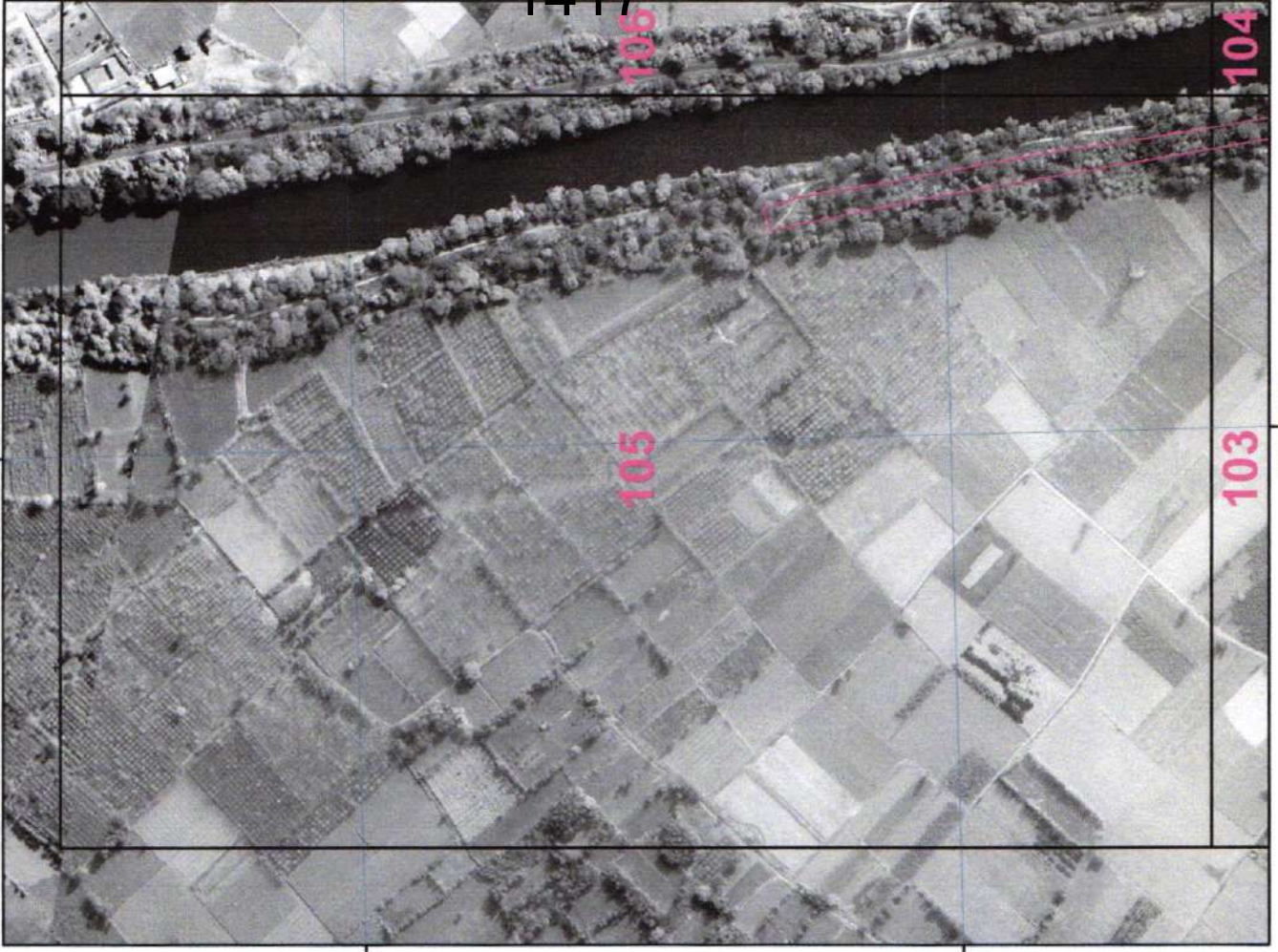
Drone Images Oct 2024

Satellite Images from NRSC of 2023

AREA_17_04

77°52'30"E

77°52'30"E



77°52'30"E

77°52'30"E

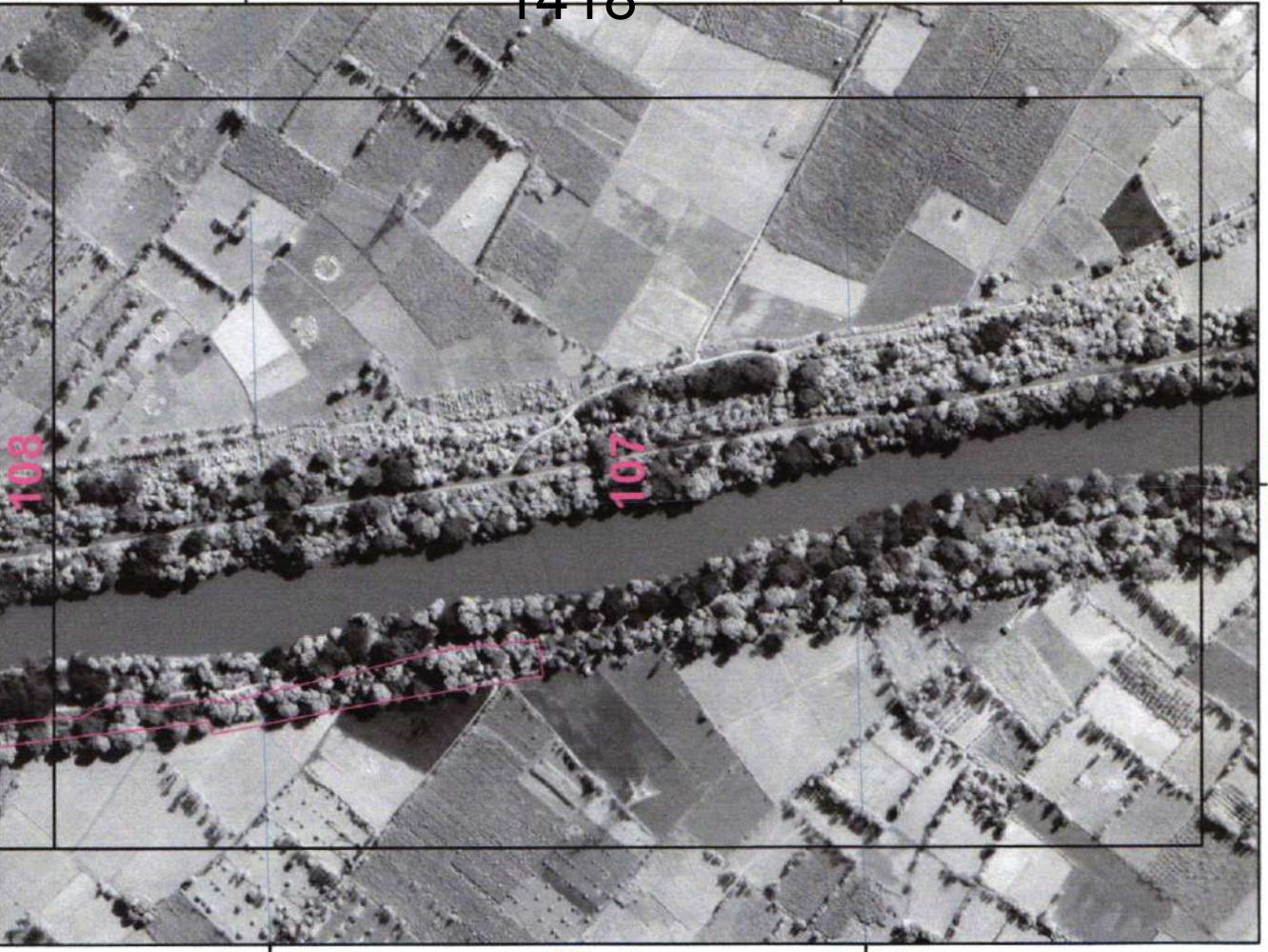
120

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_18_01

77°52'30"E



29°38'15"N

29°38'15"N

29°38'0"N

29°38'0"N

77°52'30"E

77°52'30"E

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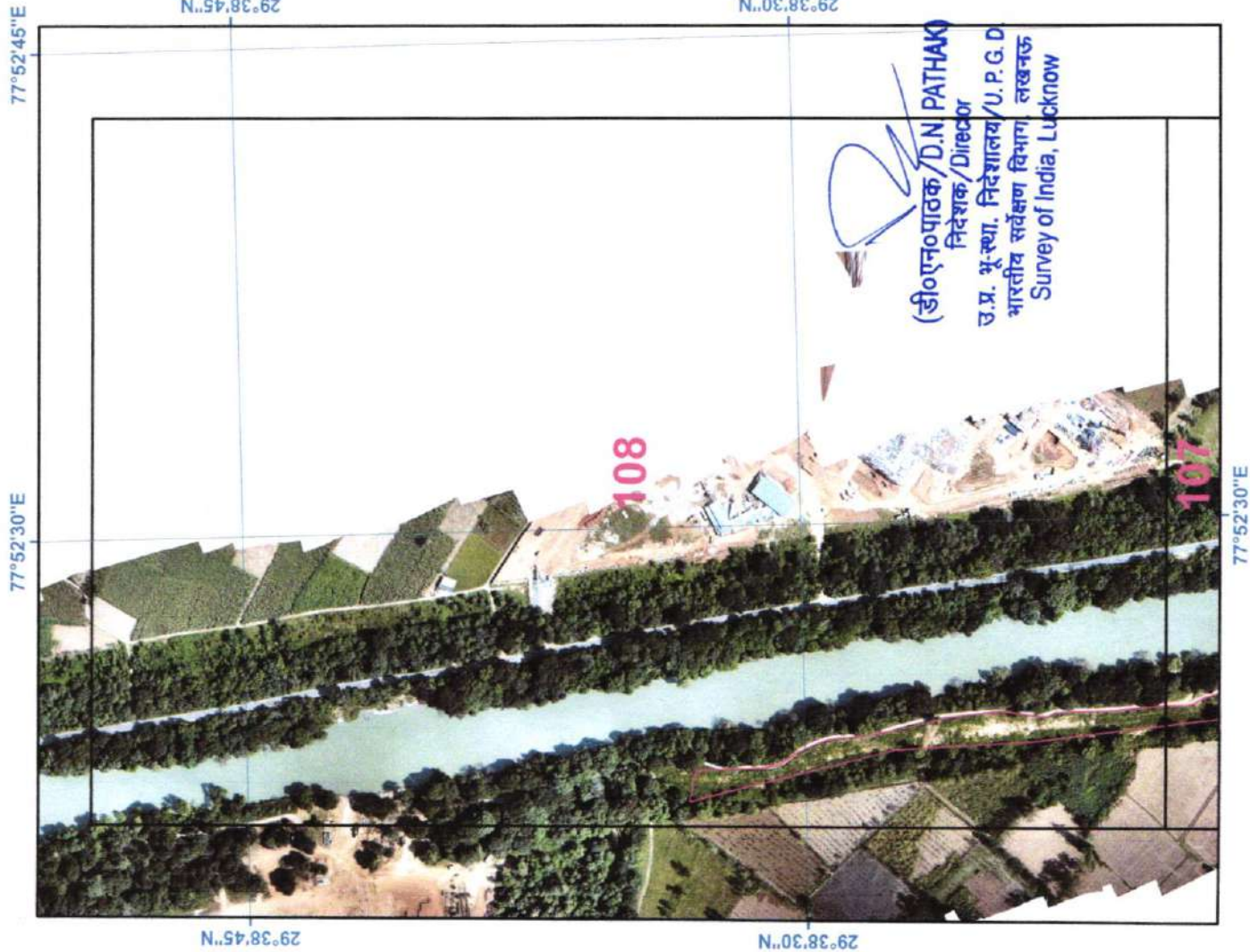
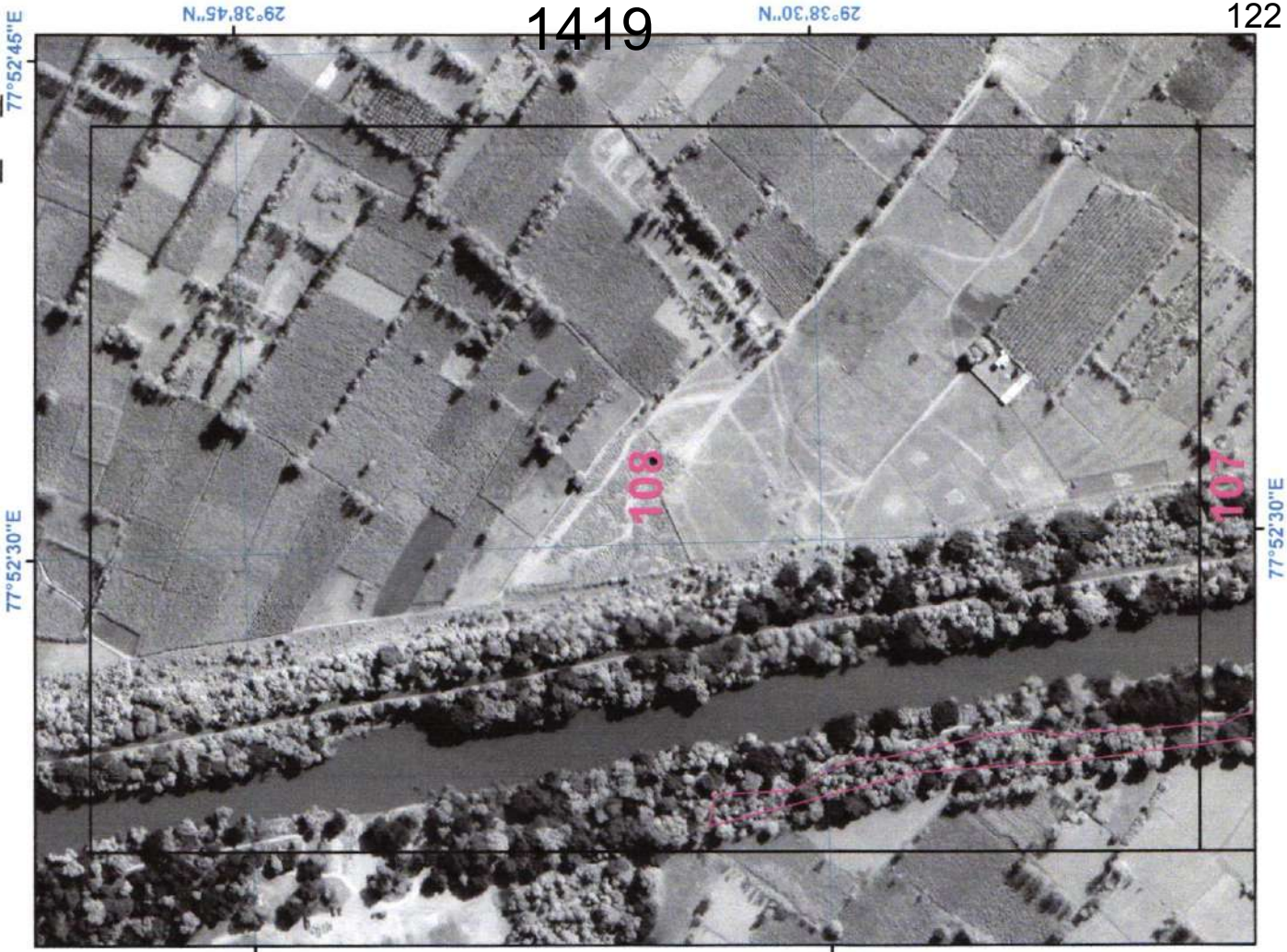
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121

SURVEY OF INDIA

Drone Images Oct 2024

Satellite Images from NRSC of 2023 AREA_18_02



1419

122